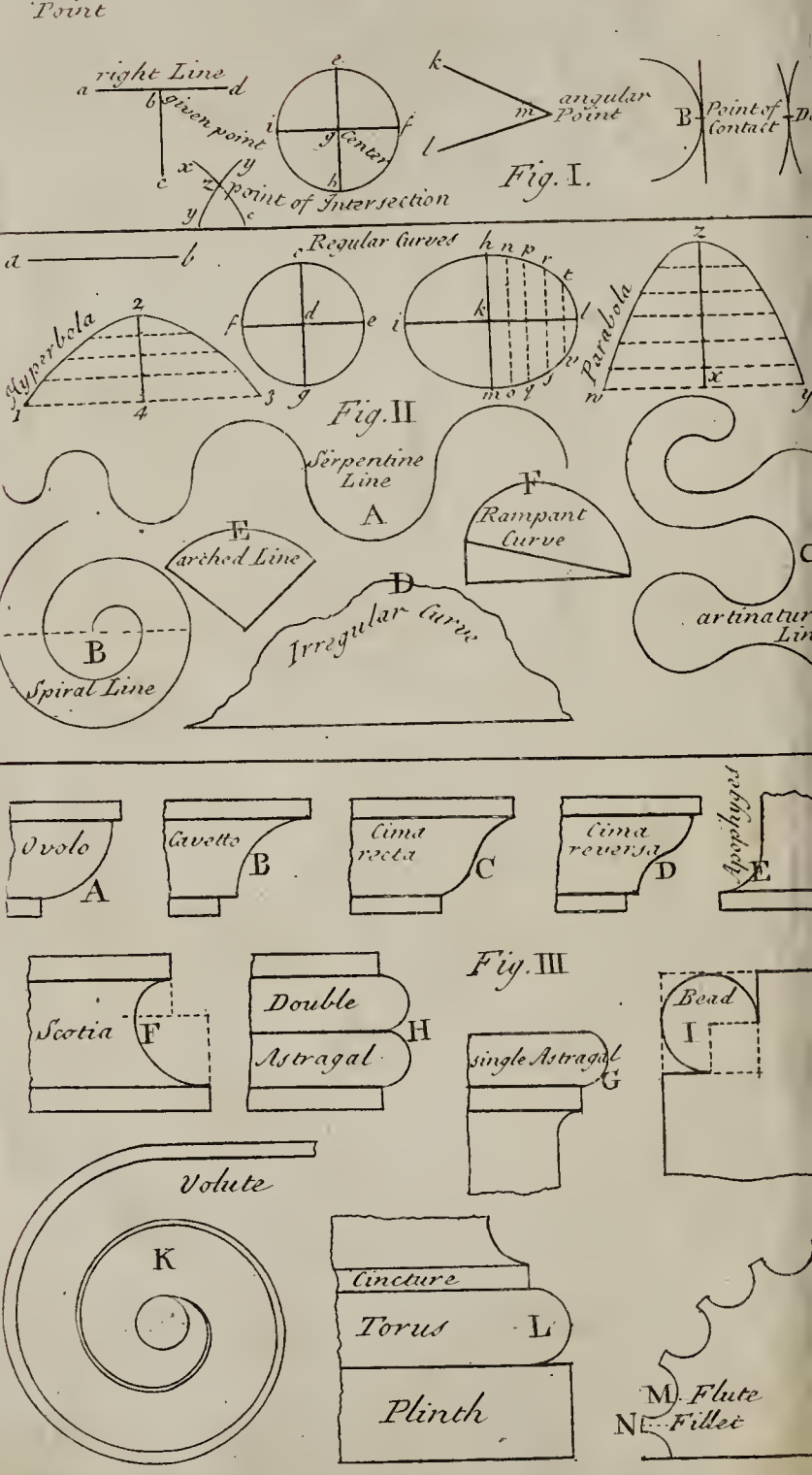
3 vols
3/00

John Smith

1800

JOHN
HARRIS



Batty Langley Delin. et Sculp. 1738.

Superficial Figures.

Plate I.

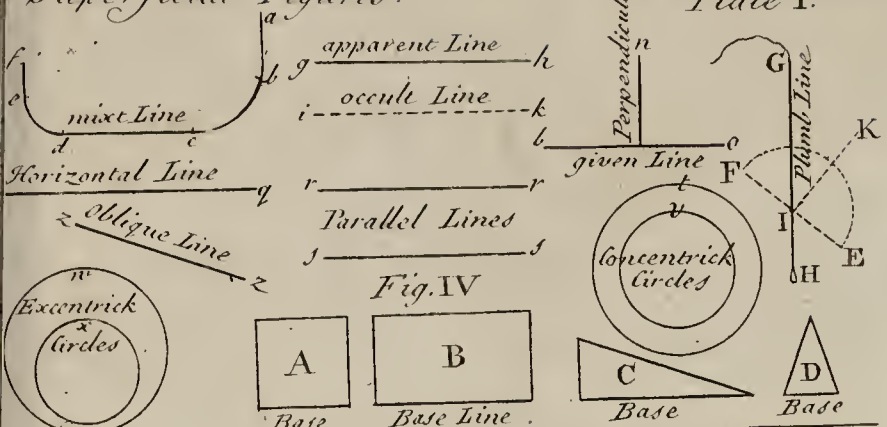


Fig. IV

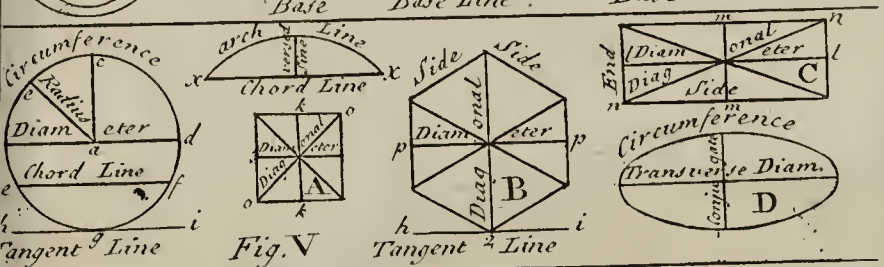


Fig. V

Fig. VI

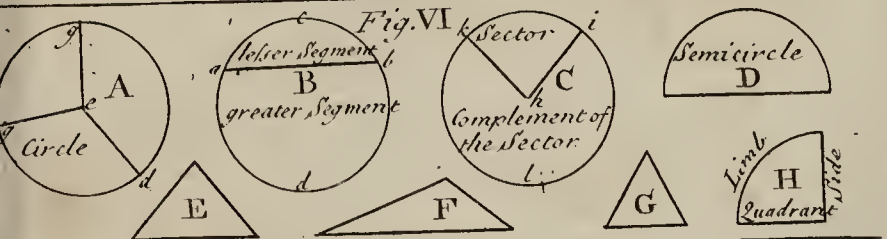
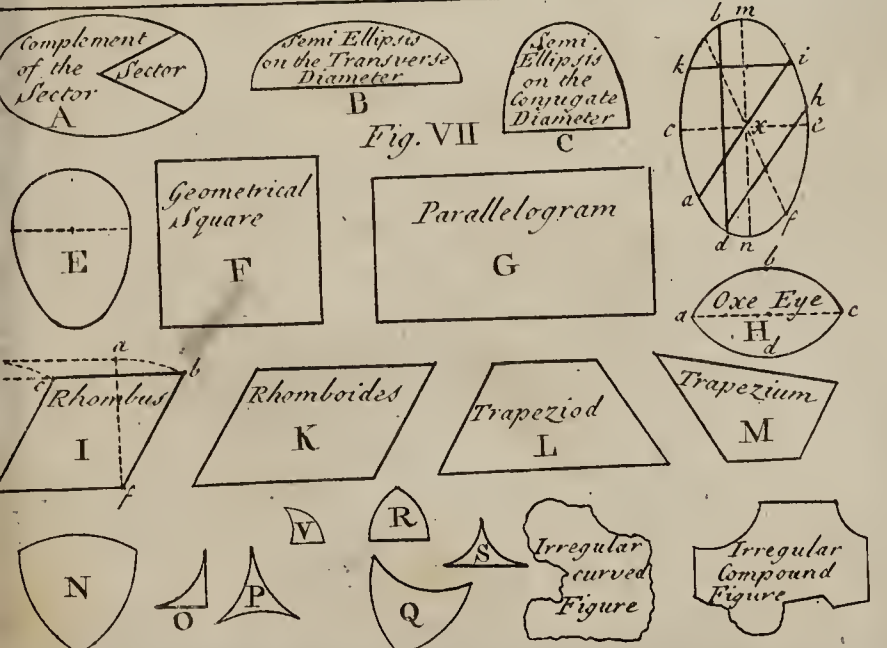
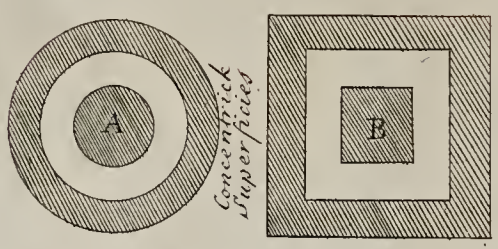
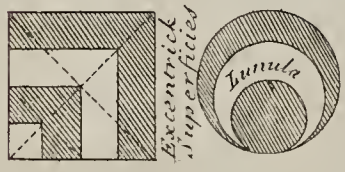


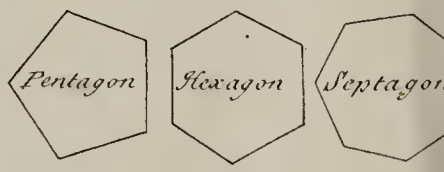
Fig. VII

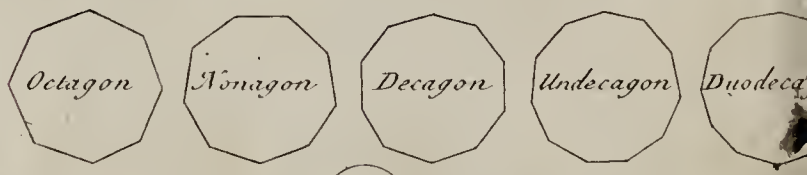


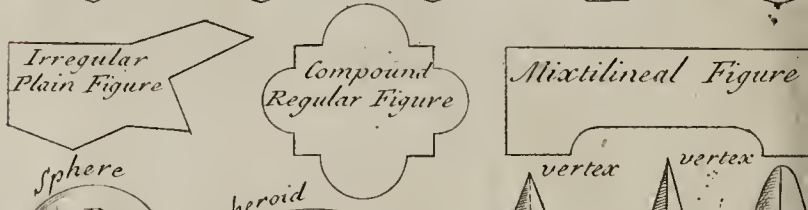
Definitions of Sup

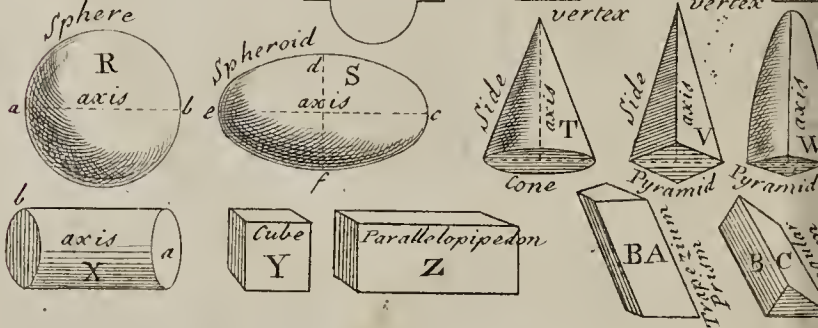


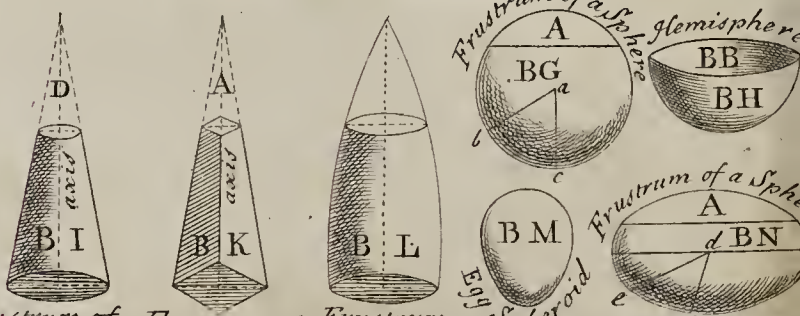




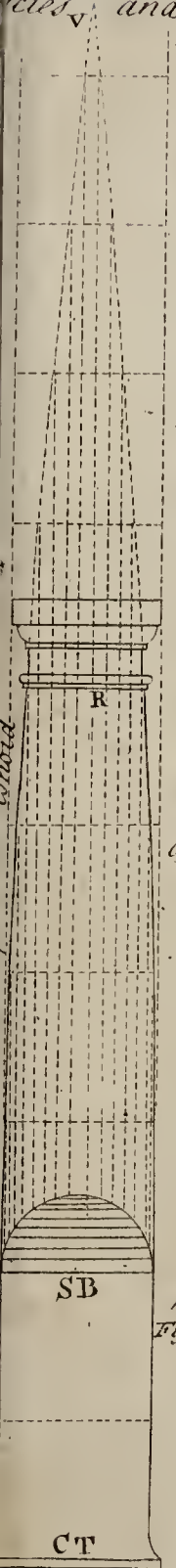


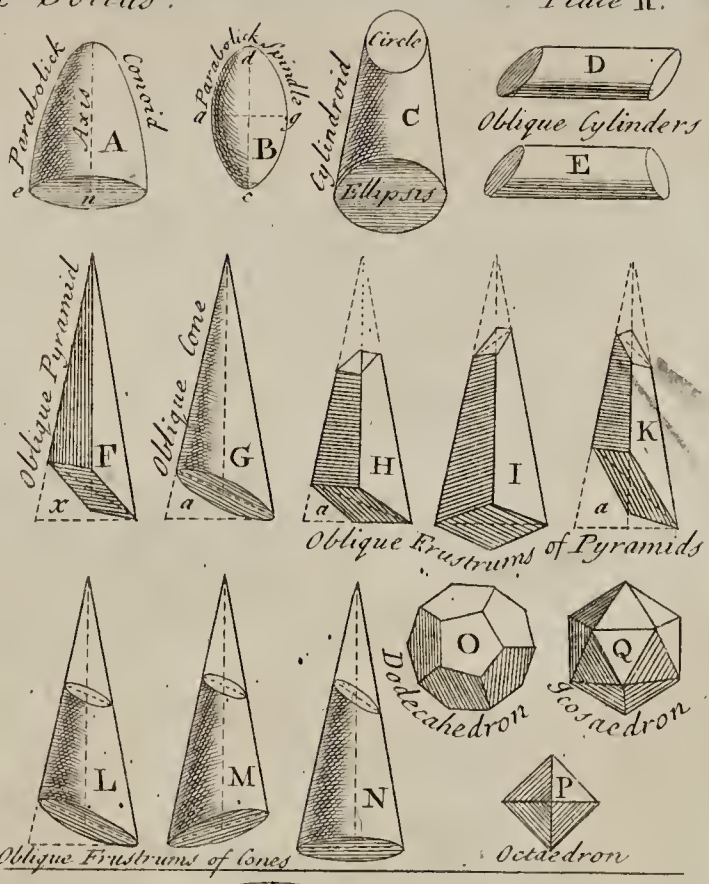


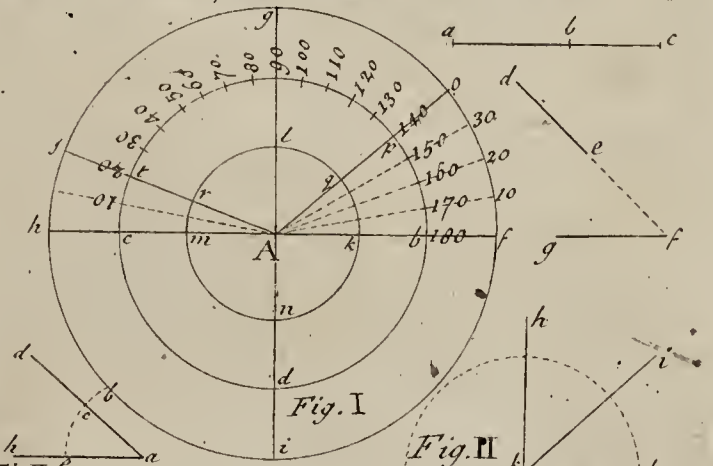




Batty Langley D

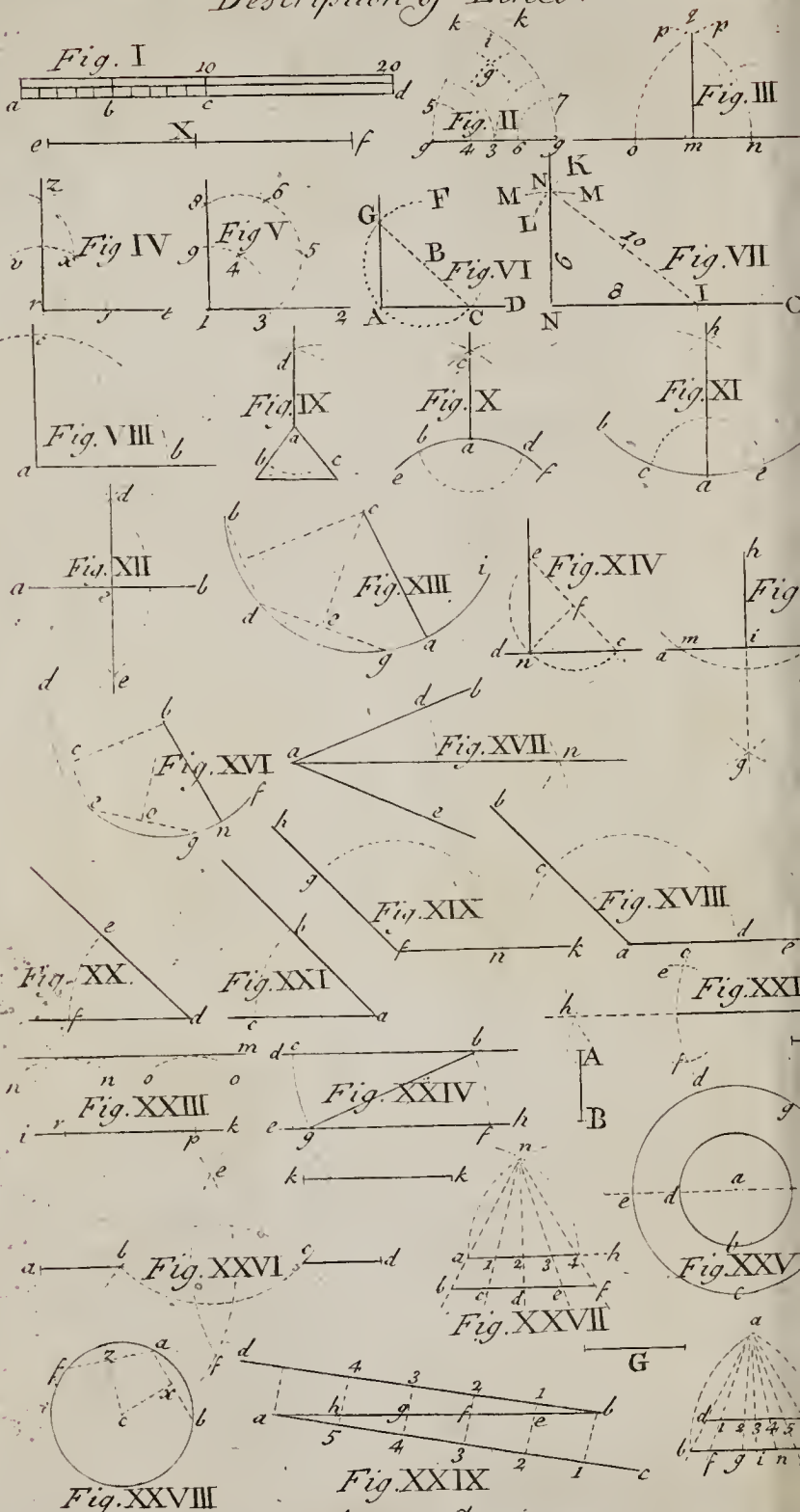






et Sculp. 1738.

Description of Lines.



Batty Langley Delin. & Sculp. 1738.

Plate III

Fig. XXX

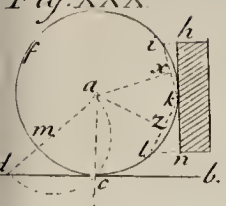


Fig. XXXI

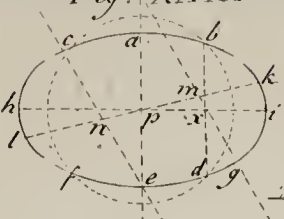


Fig. XXXII

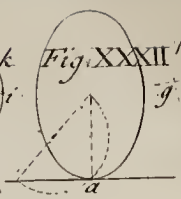
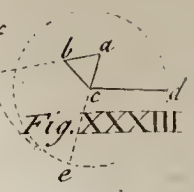


Fig. XXXIII



Division of Circles

Degrees in a Circle

Fig. XXXIV

Minutes in an Hour

Fig. XXXV

Hours

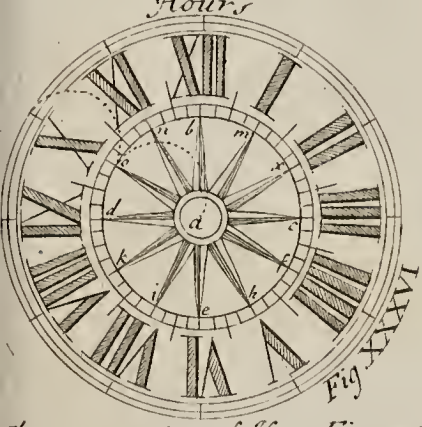


Fig. XXXVI

Points of the Compass

Fig. XXXVII

The construction of Hour Figures for Clocks and Sun Dials

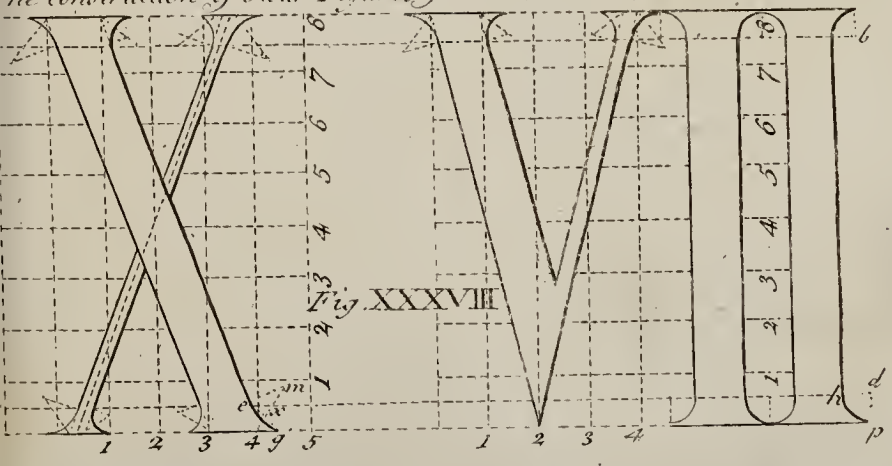
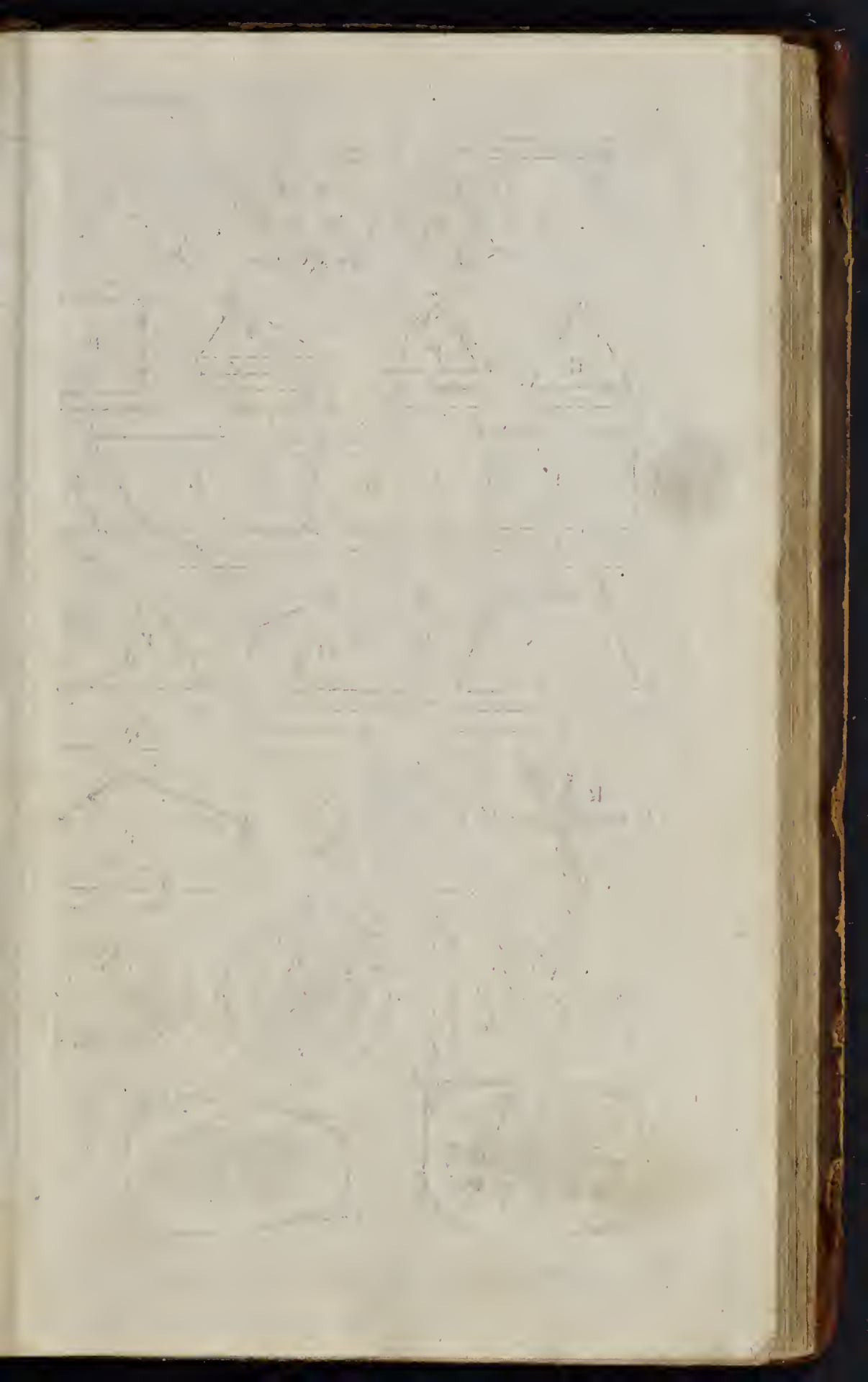
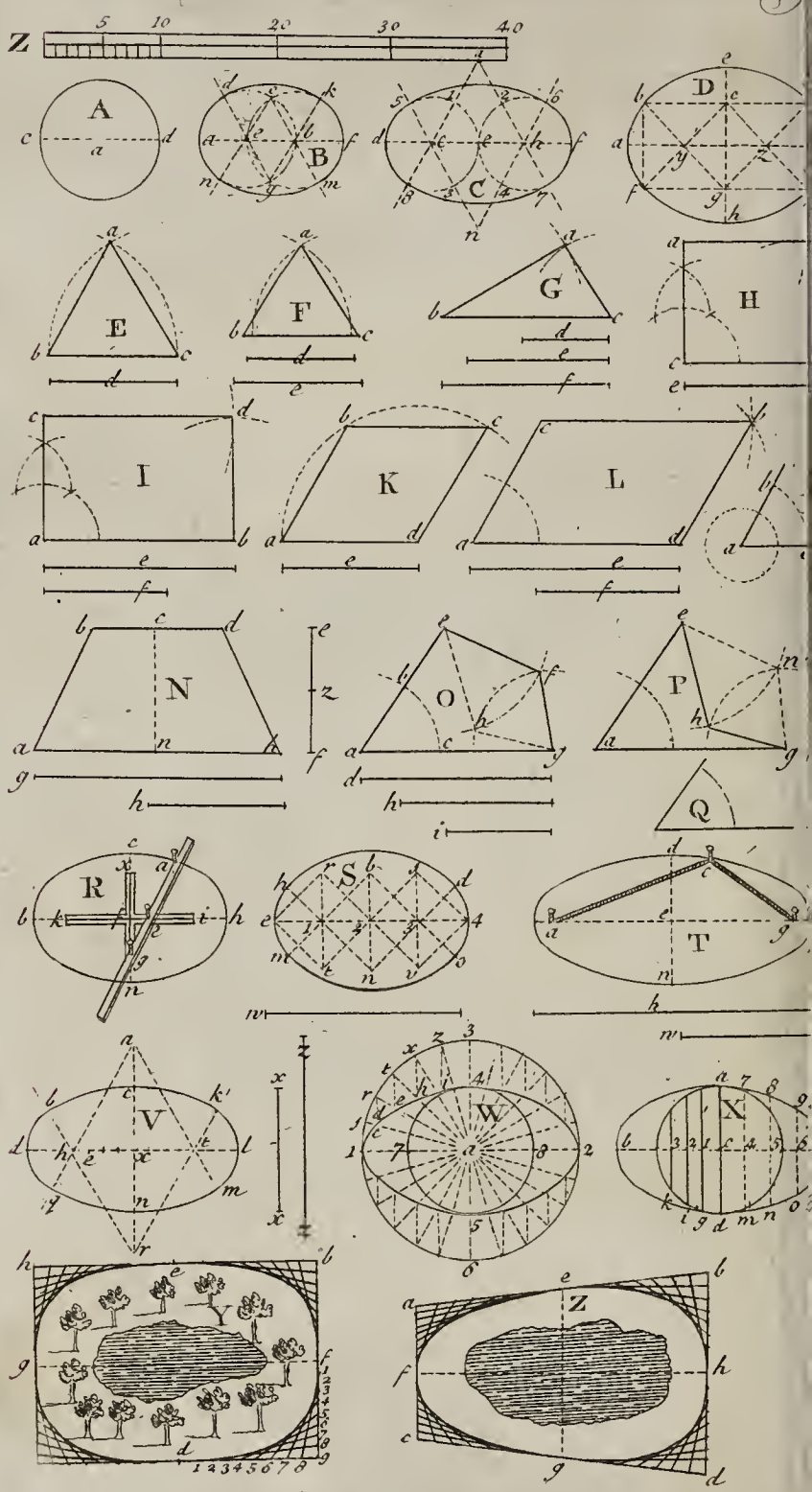
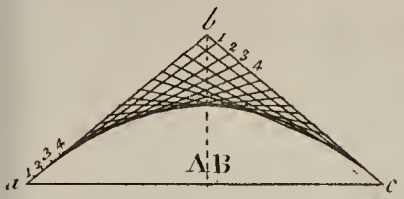


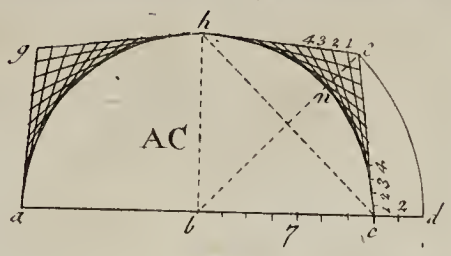
Fig. XXXVIII

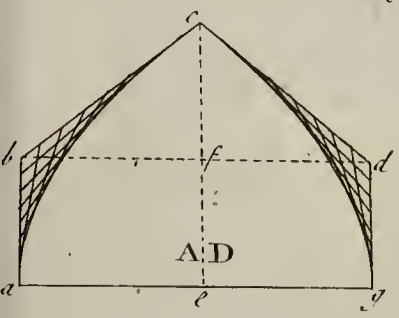


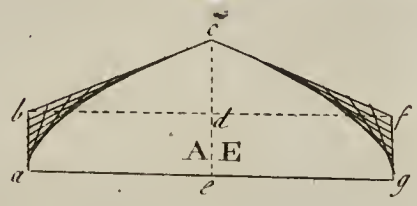


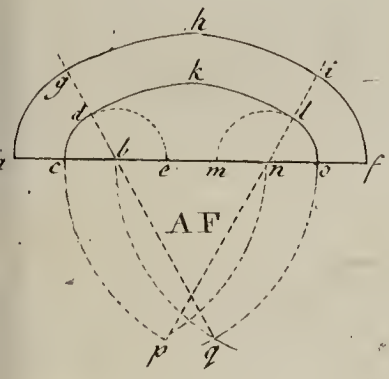
B. L. Delin. & Sculp. 1738.

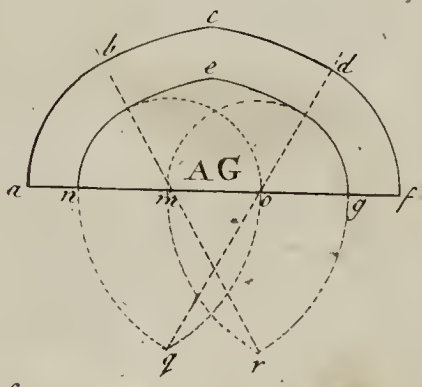

AB

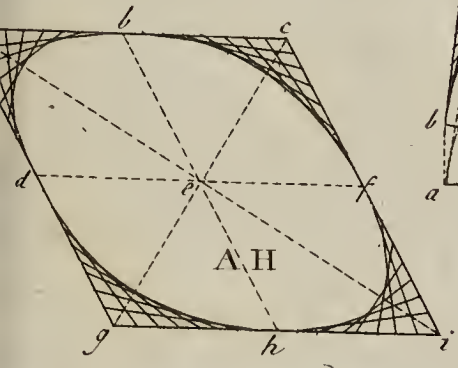

AC

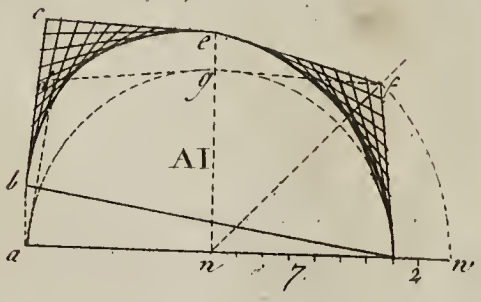

AD

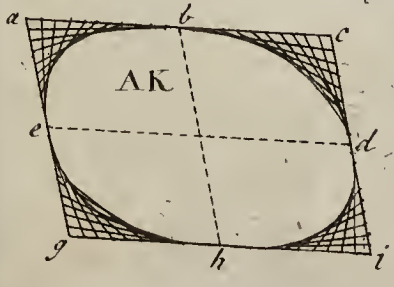

AE

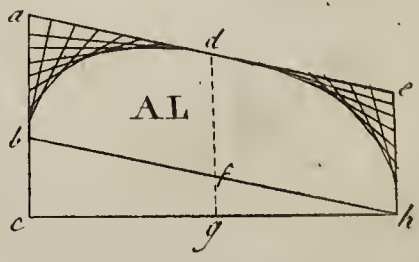

AF


AG

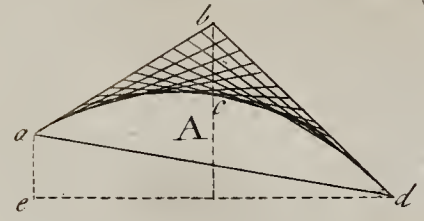

AH

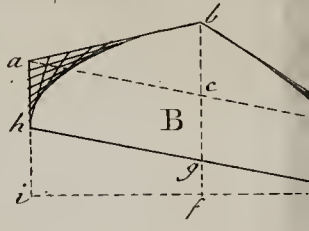

AI

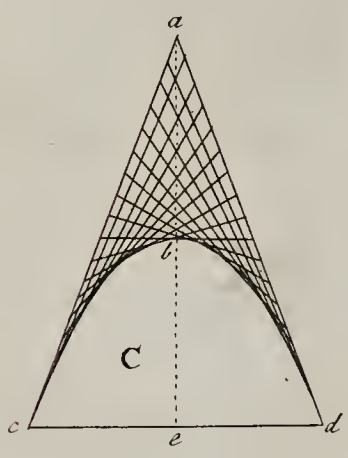

AK

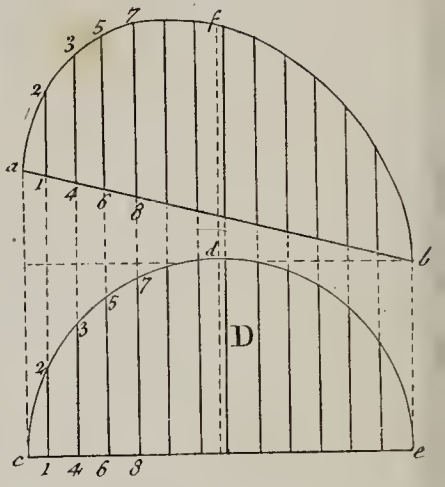

AL

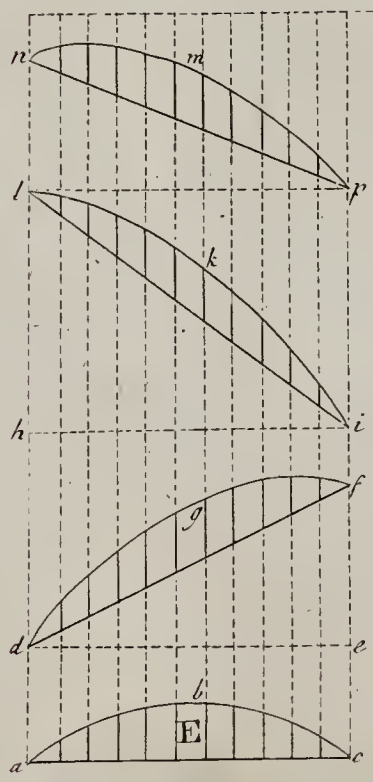
The construction of Arches, Parabo

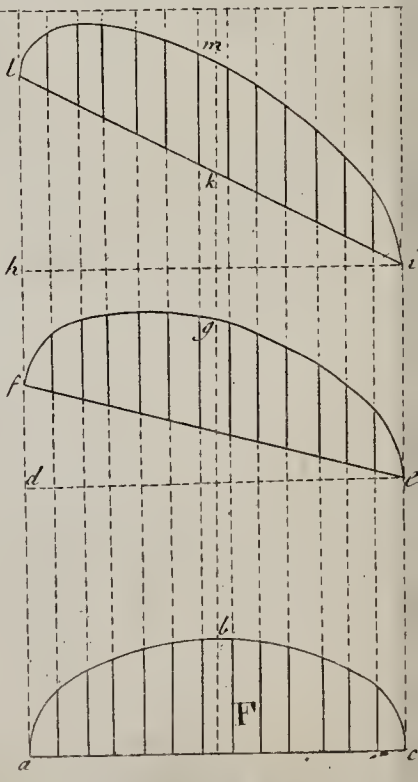




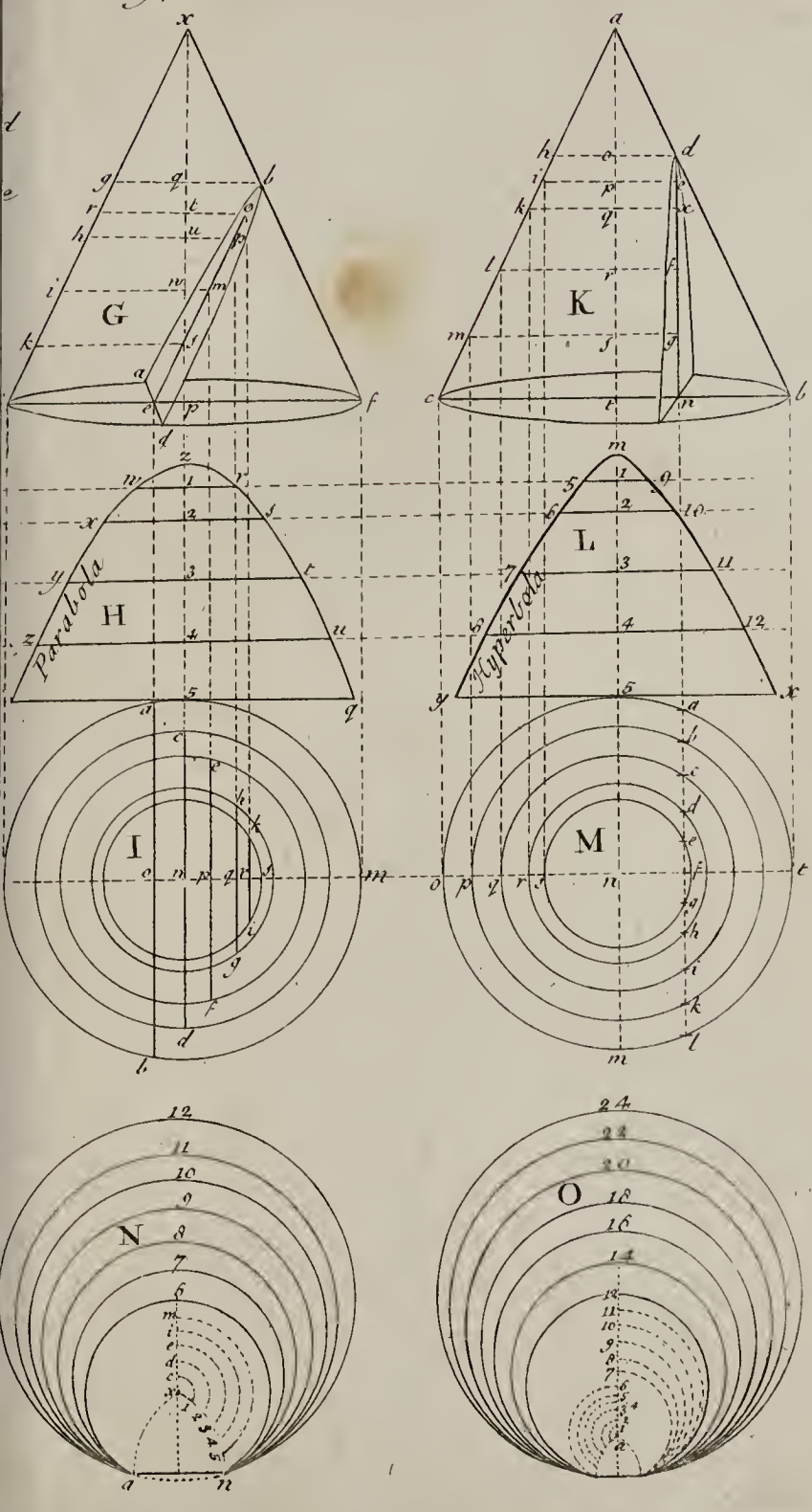




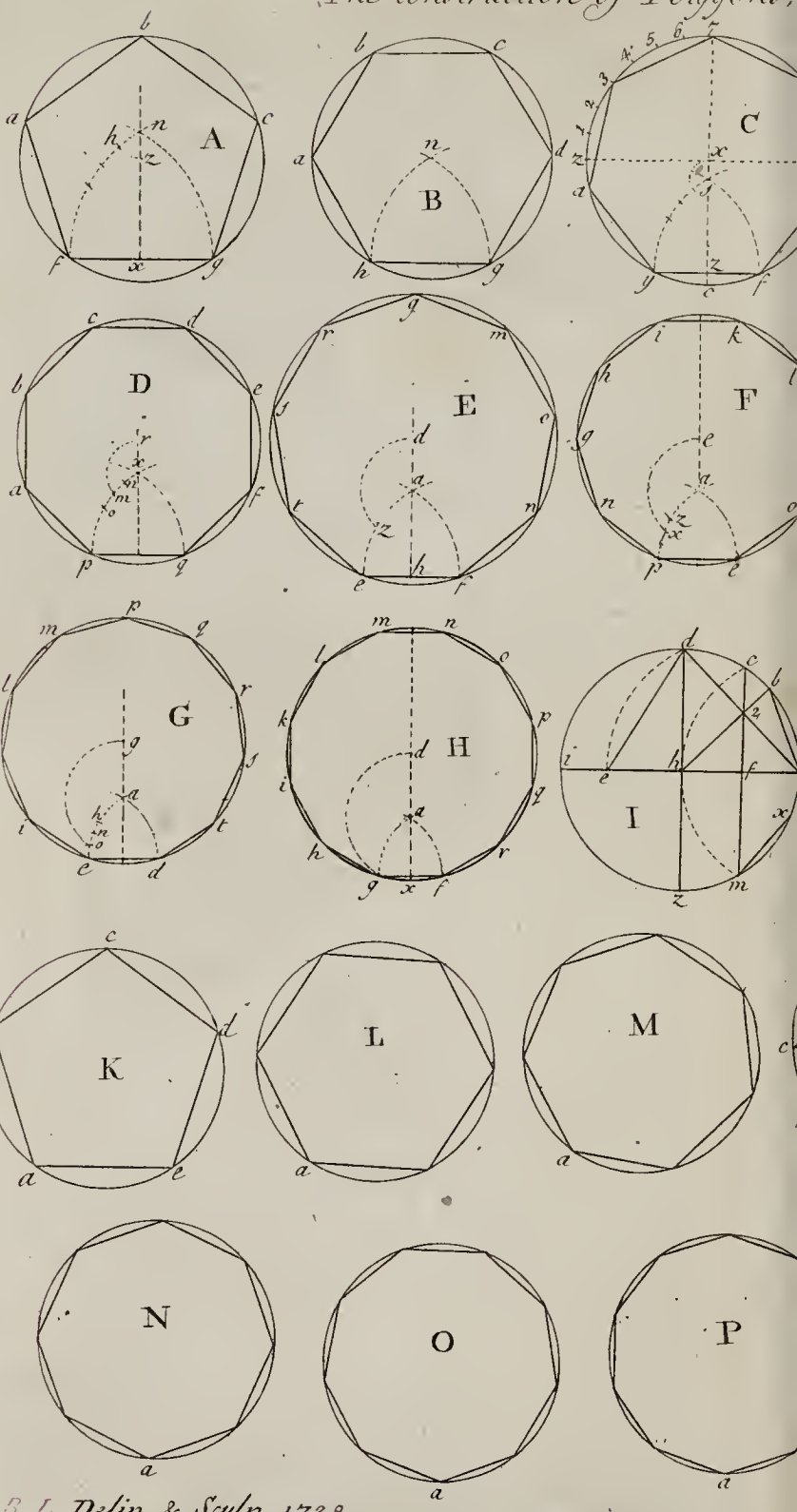




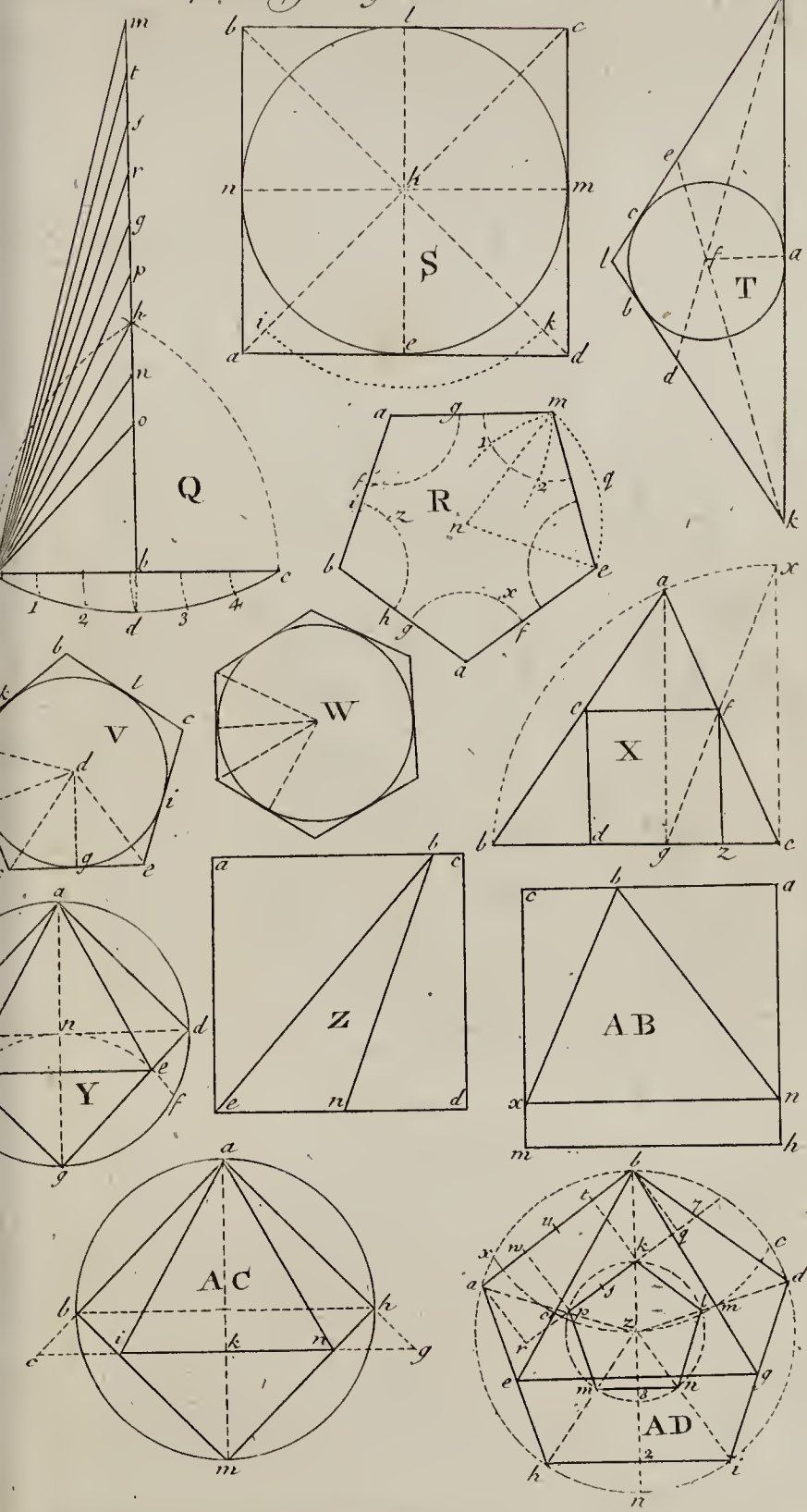
B. L. Delin. & Sculp. 1738.

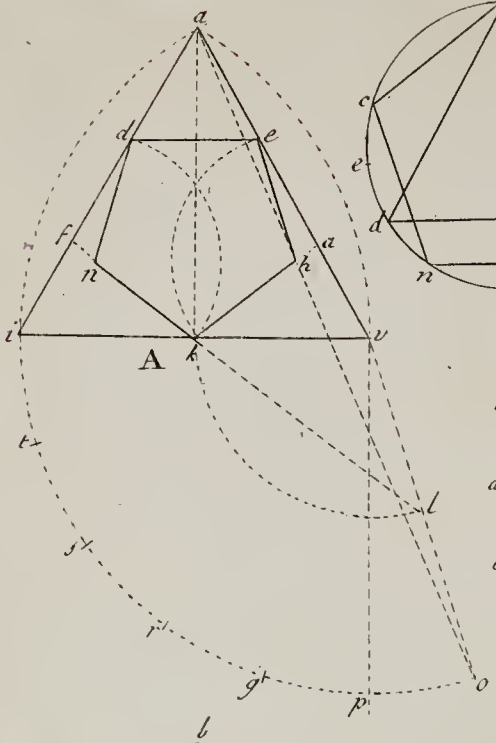

G
K
H
Parabola
L
Hyperbola
I
M
N
O

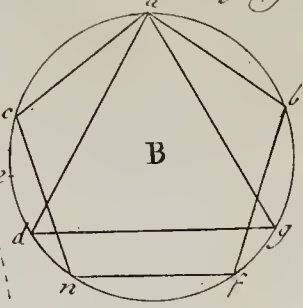
The construction of Polygons,

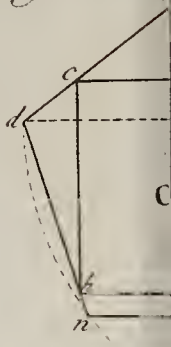


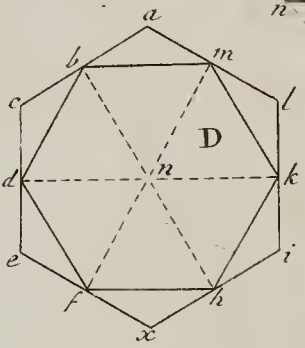
B. L. Delin. & Sculp. 1738.

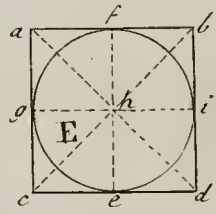

Q
S
T
R
V
W
X
Y
Z
AB
AC
AD

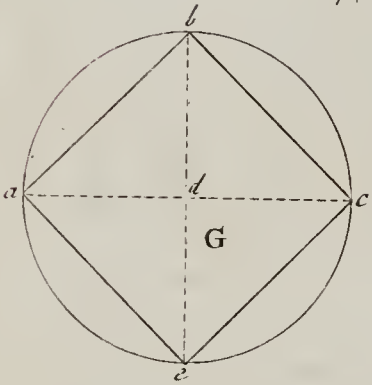


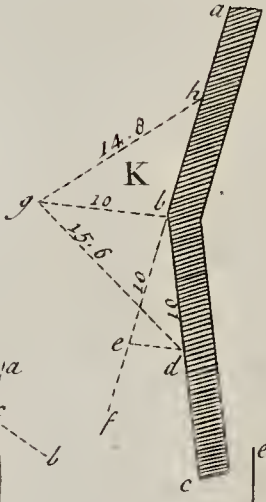


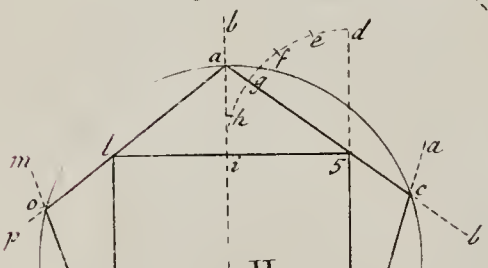




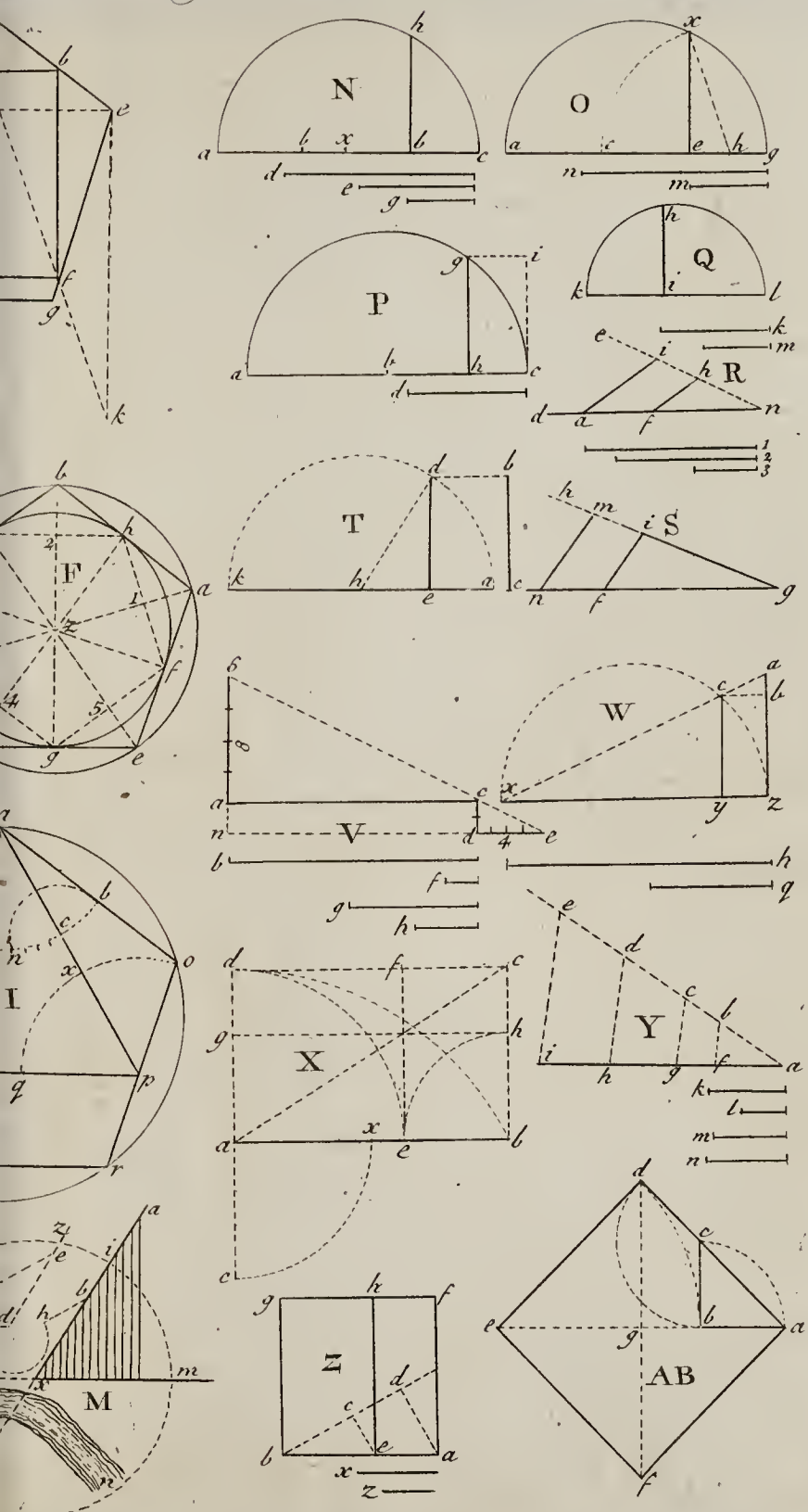


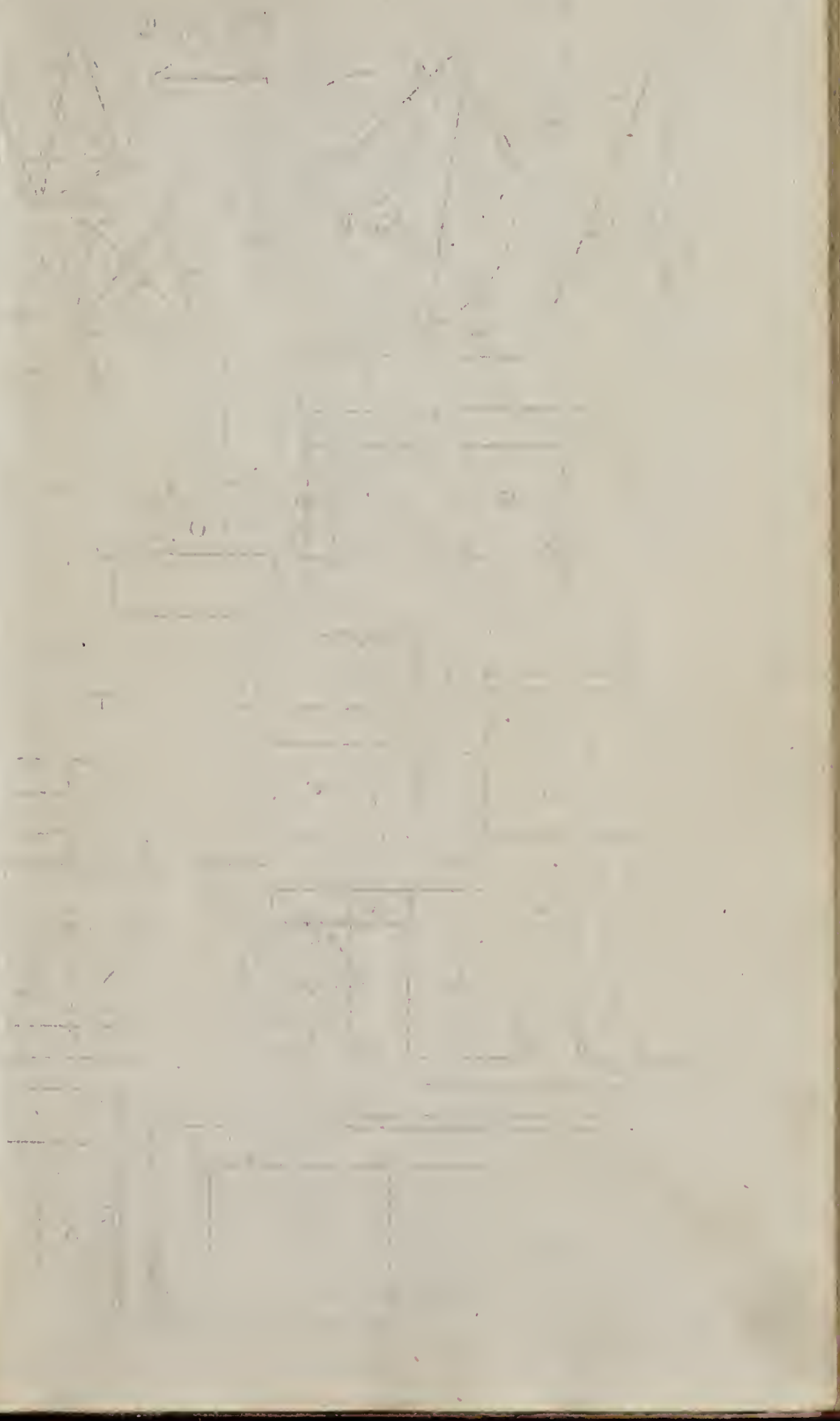






B. L. Delin. & Sculp. 1738.


N
O
P
Q
R
S
T
V
W
X
Y
Z
AB
M
F
I



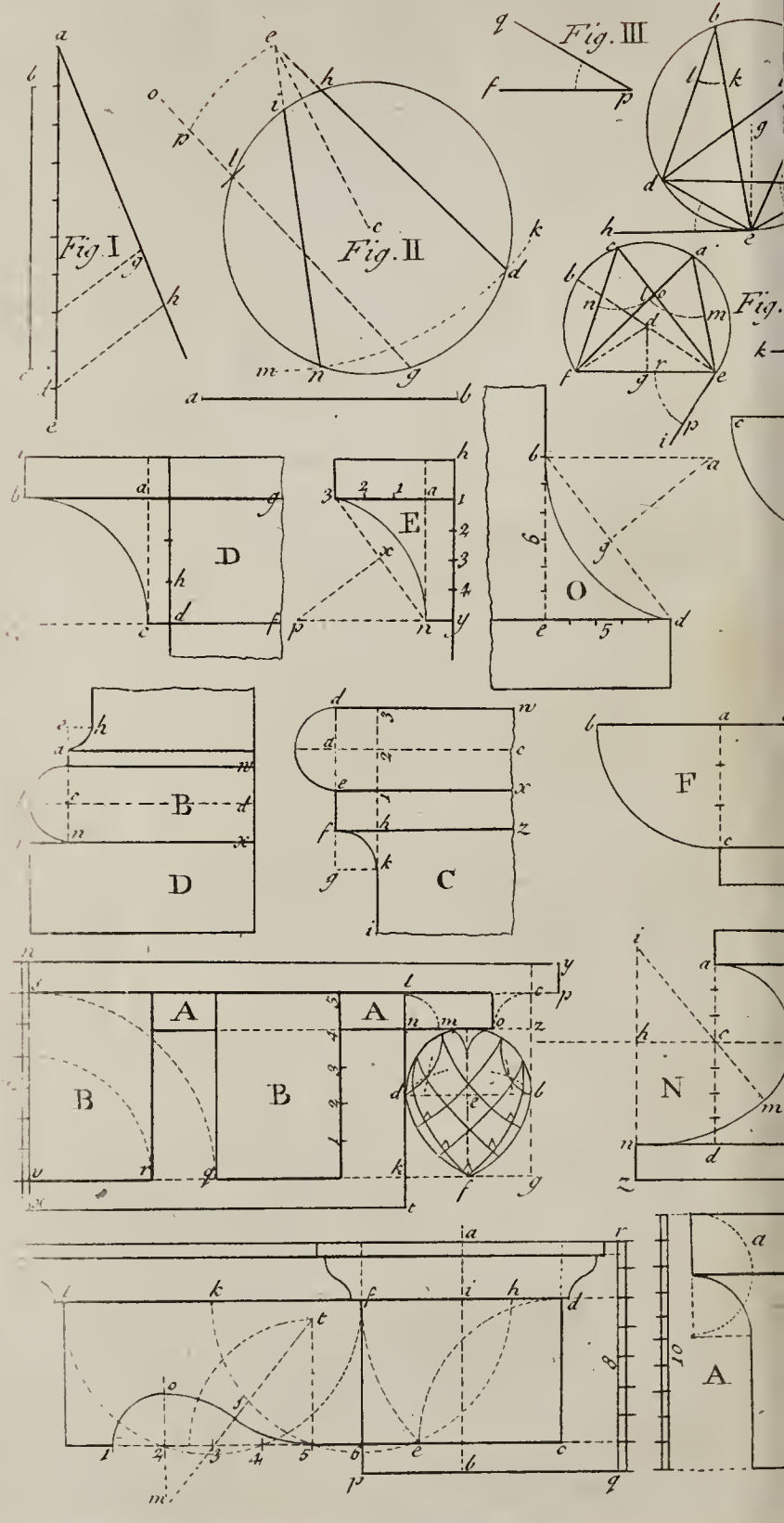


Fig. I
Fig. II
Fig. III
D
E
O
B
D
C
F
A
B
B
A
N
A

Plate VIII.

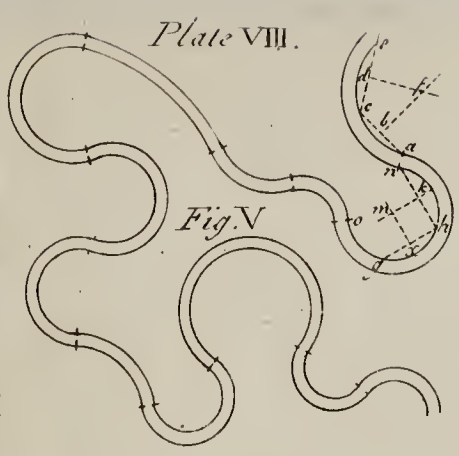


Fig. V

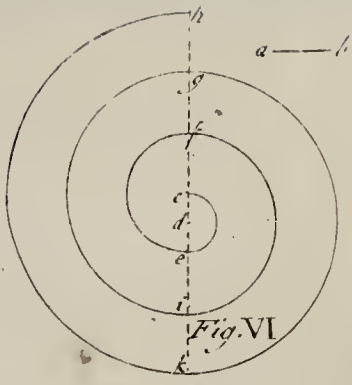
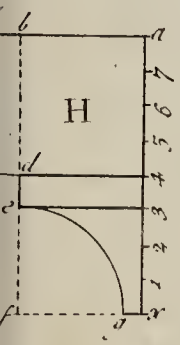
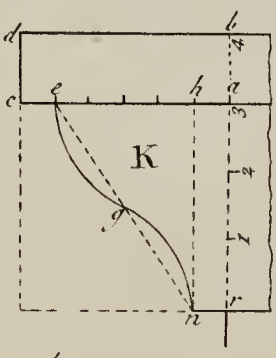
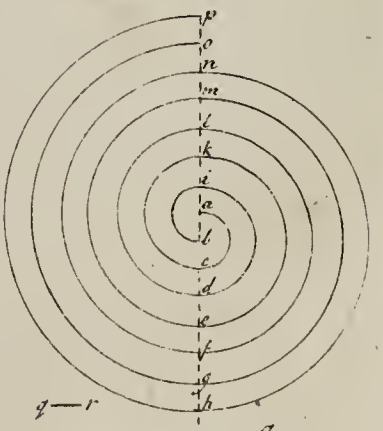
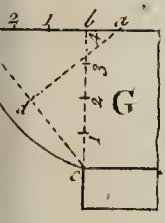


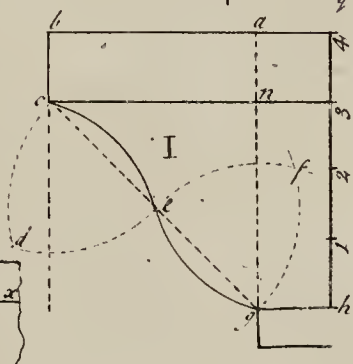
Fig. VI

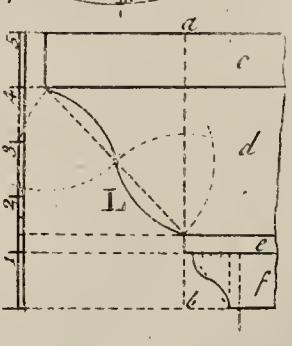


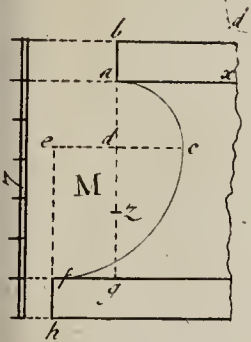


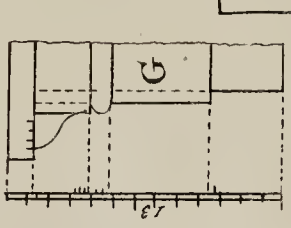


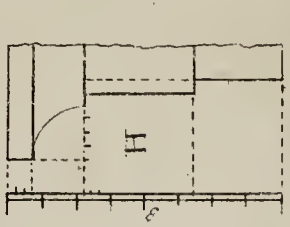


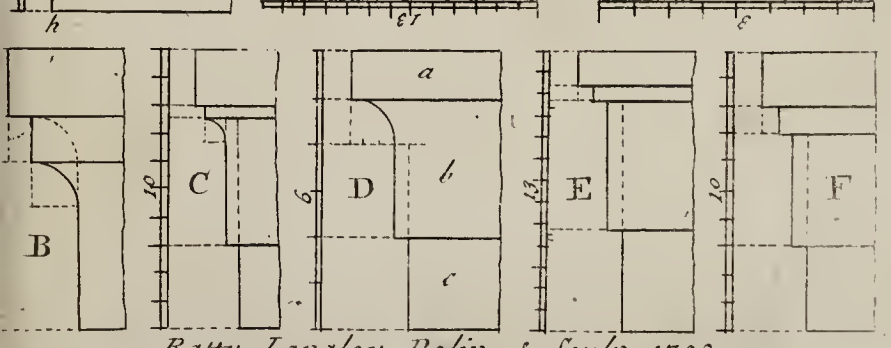




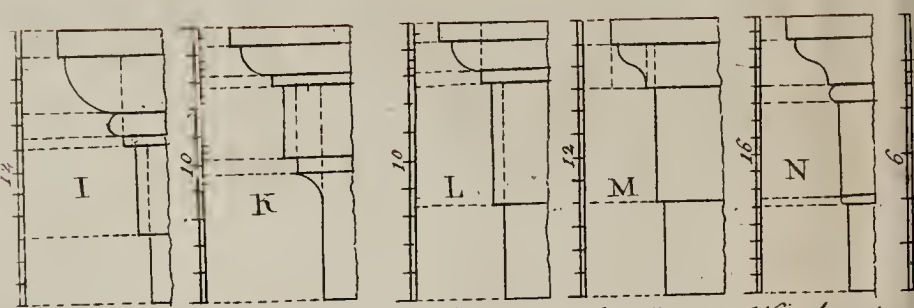




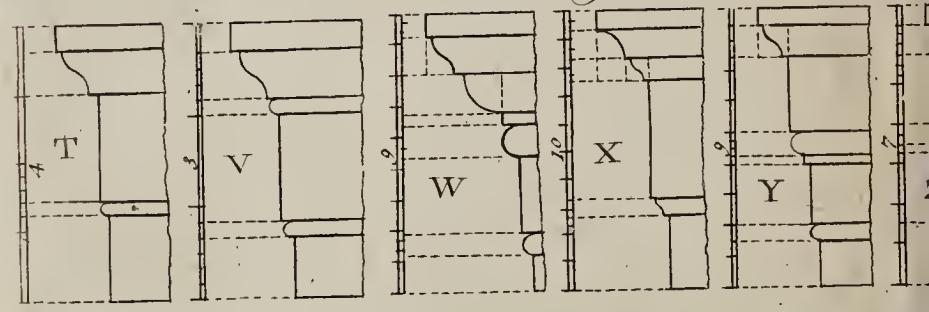


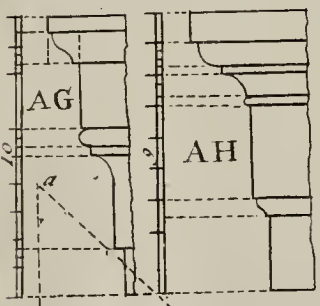


Batty Langley Delin. & Sculp. 1738.

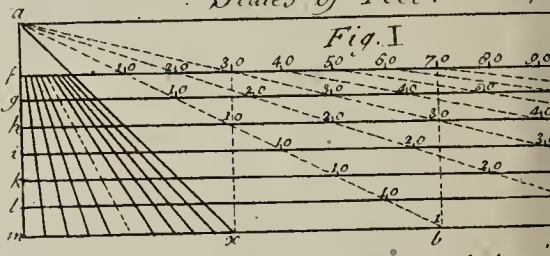


Architraves for Doors, Windows,

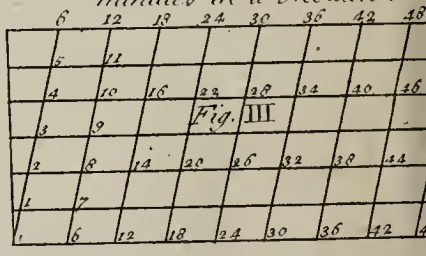




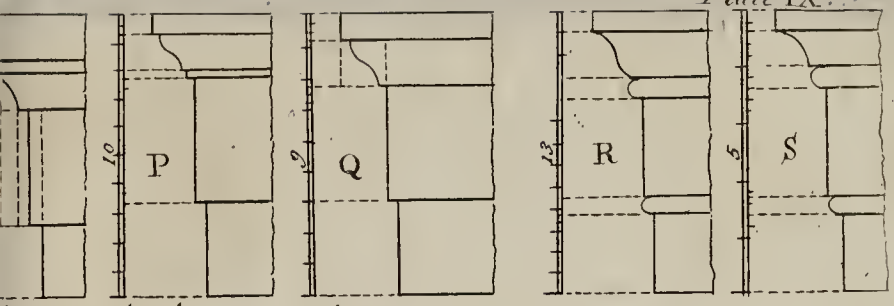
Scales of Feet.



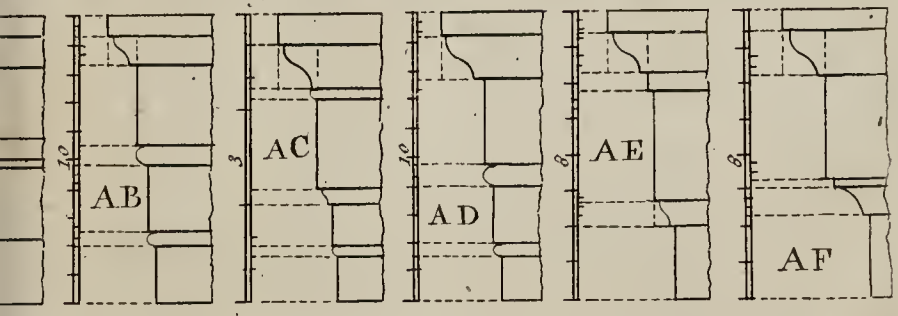
minutes in a Module.



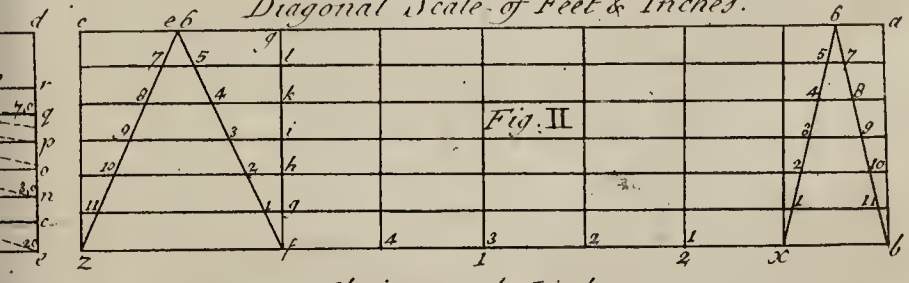
Scales of Chords of several Radius's



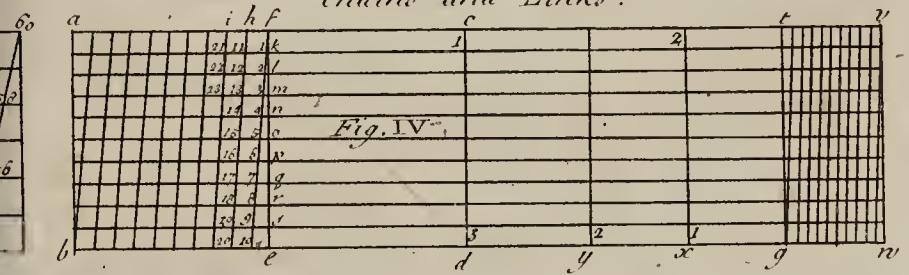
hes, and Chimney Pieces.



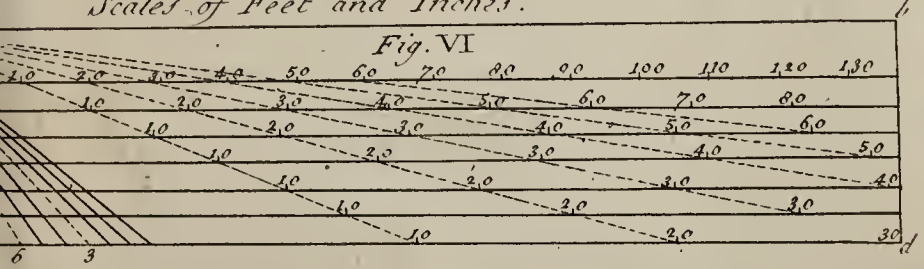
Diagonal Scale of Feet & Inches.



Chains and Links.



Scales of Feet and Inches.



Batty Langley Delin. & Sculp. 1738.

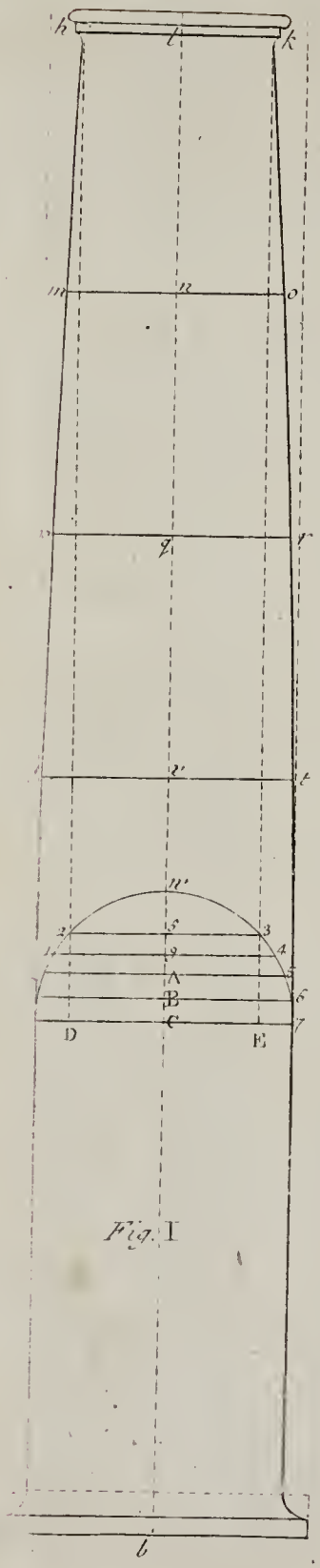


Fig. I

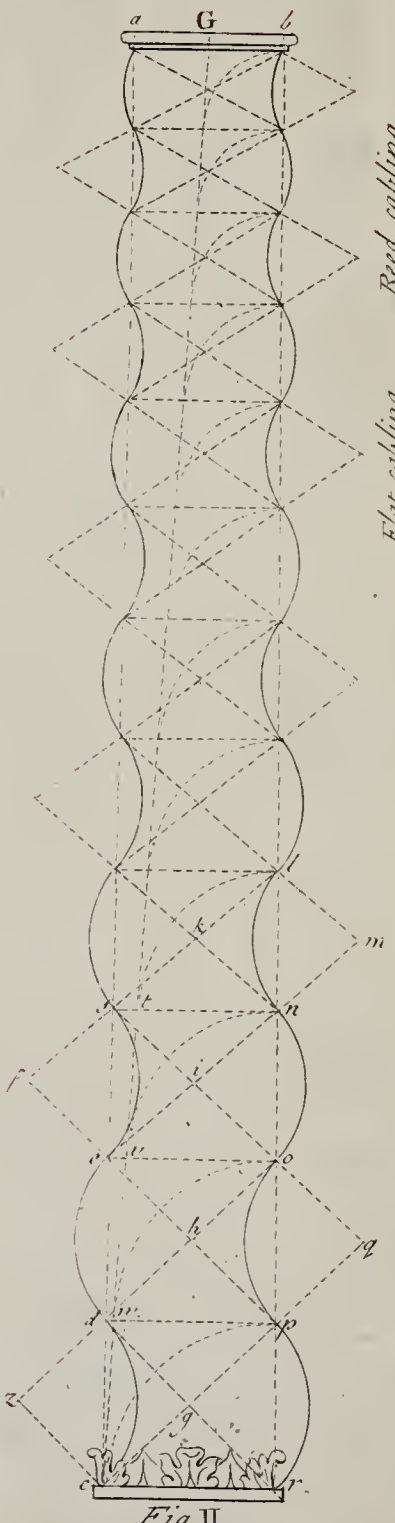
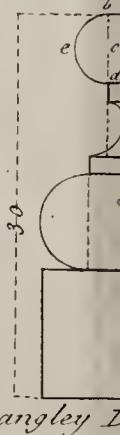
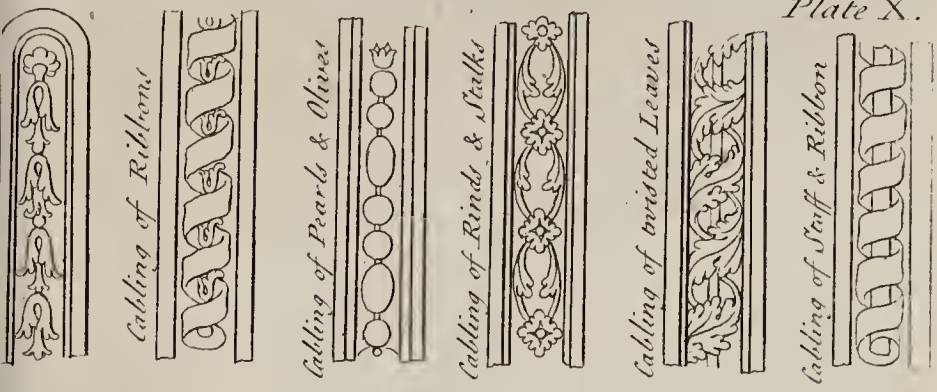


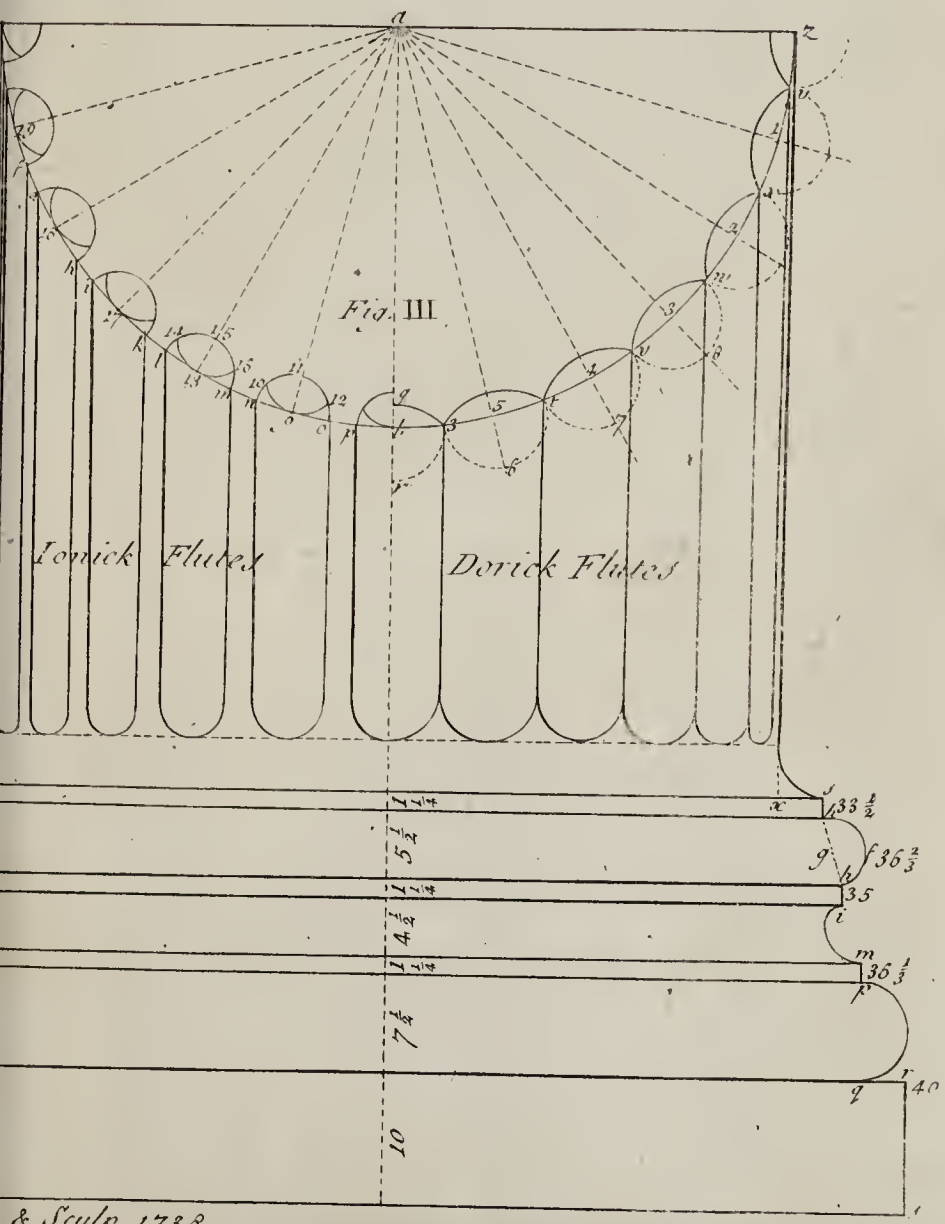
Fig. II



B. Langley D

Plate X.





& Sculp. 1738.

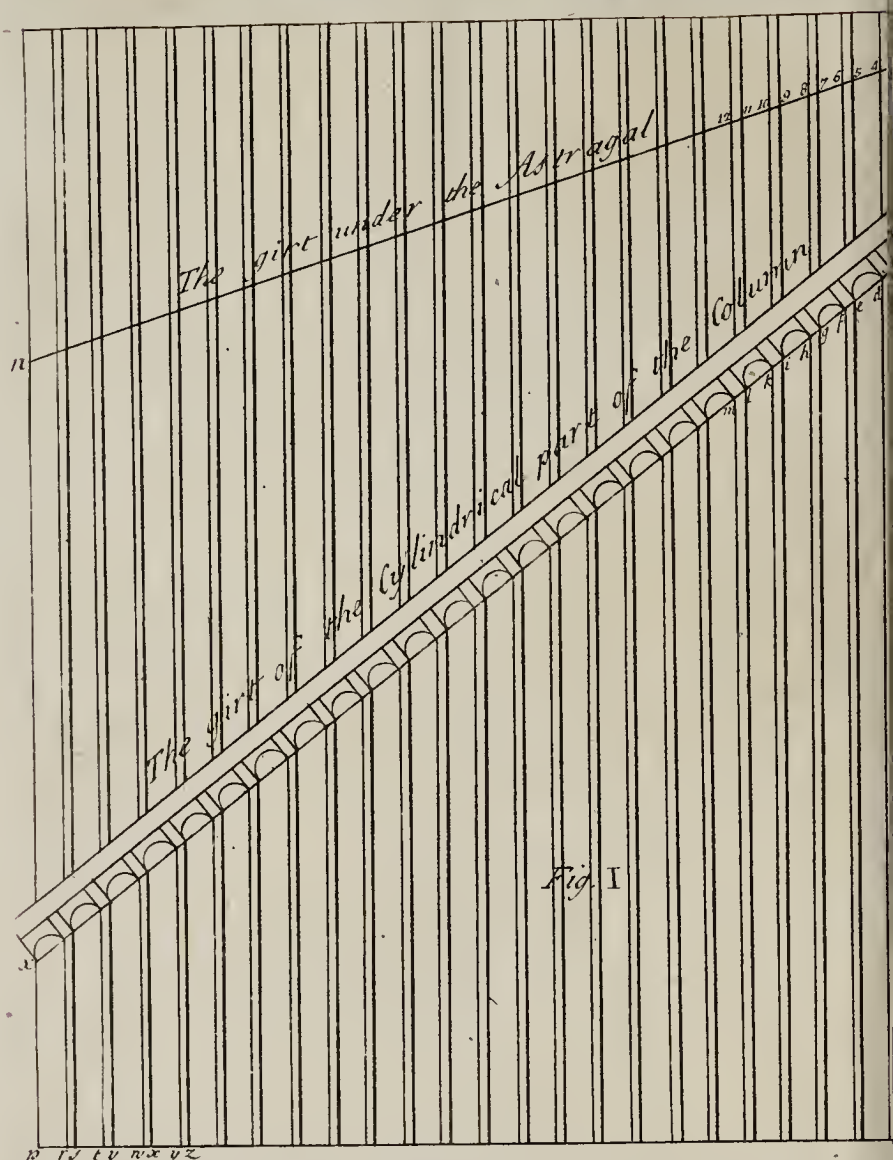


Fig. I

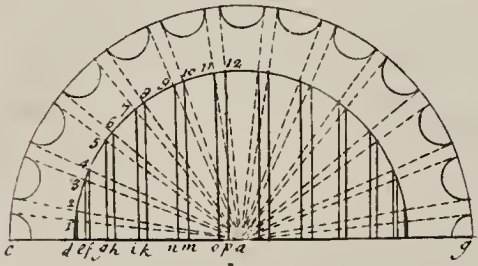


Fig. II

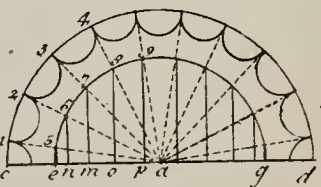
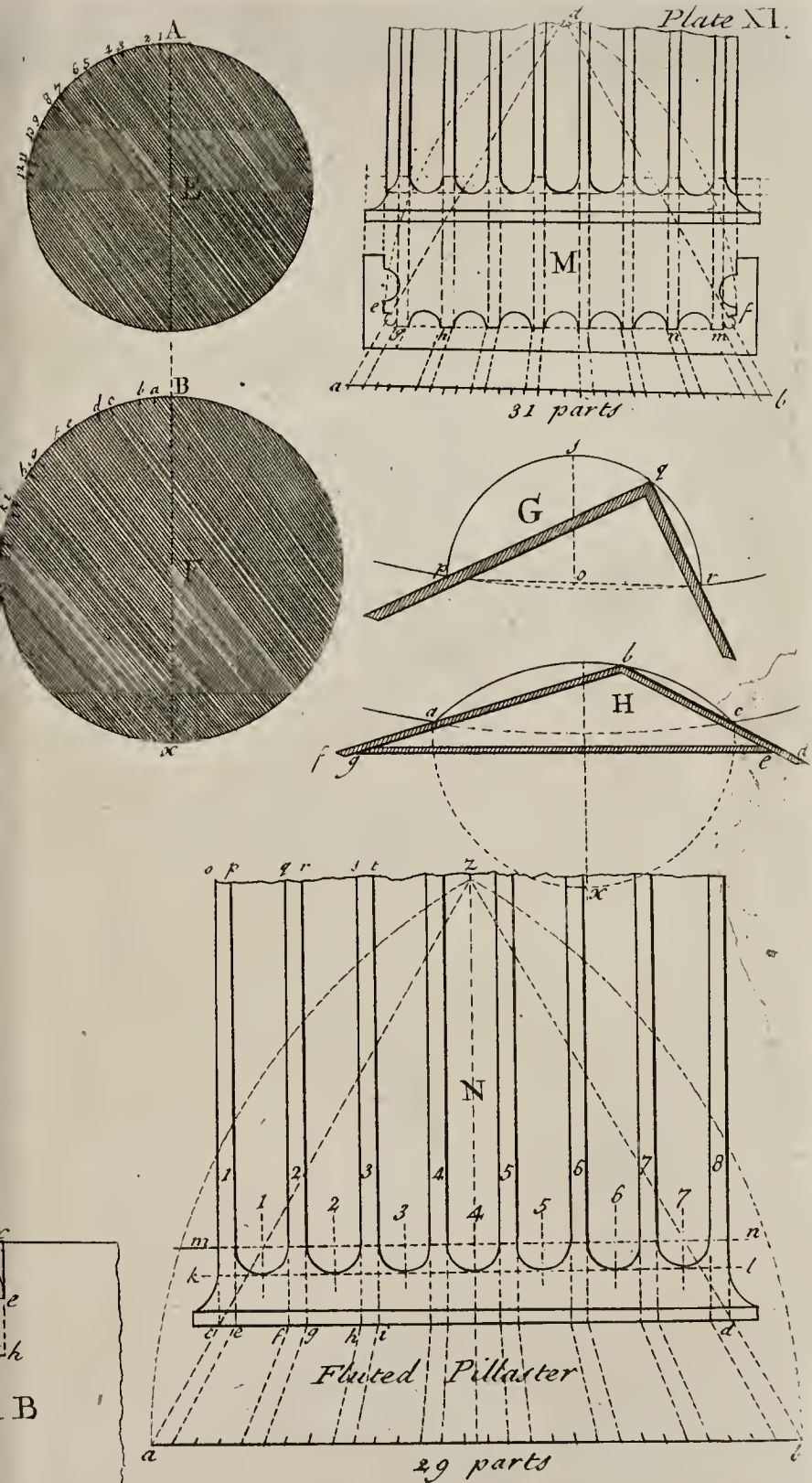
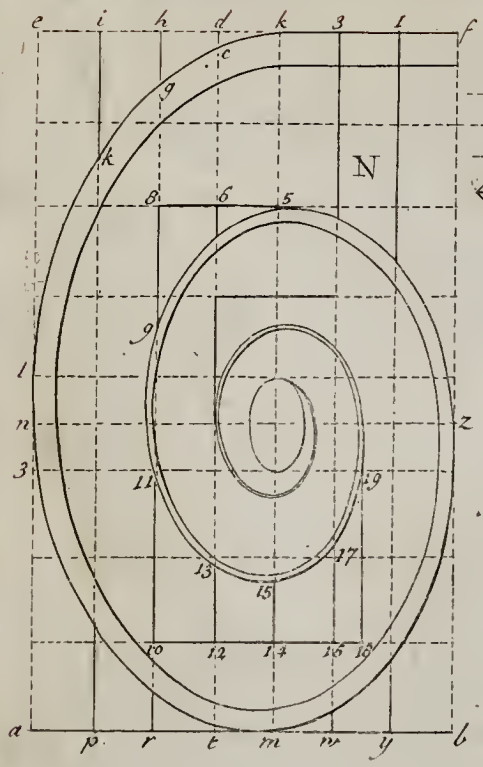
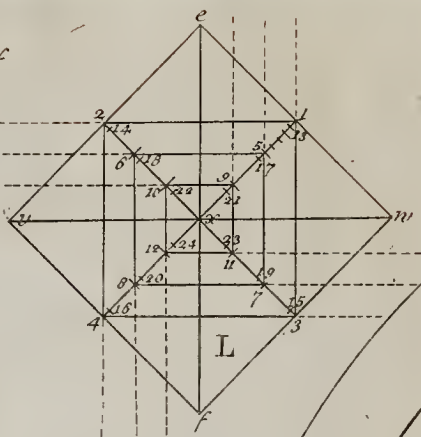


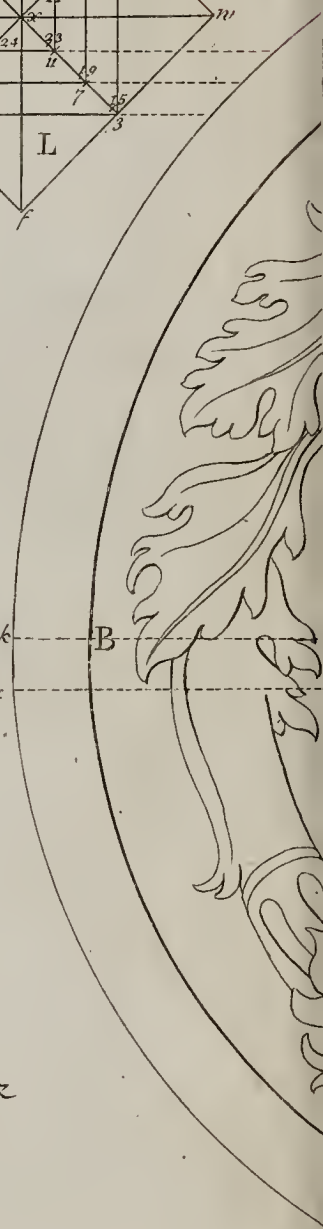
Fig. III

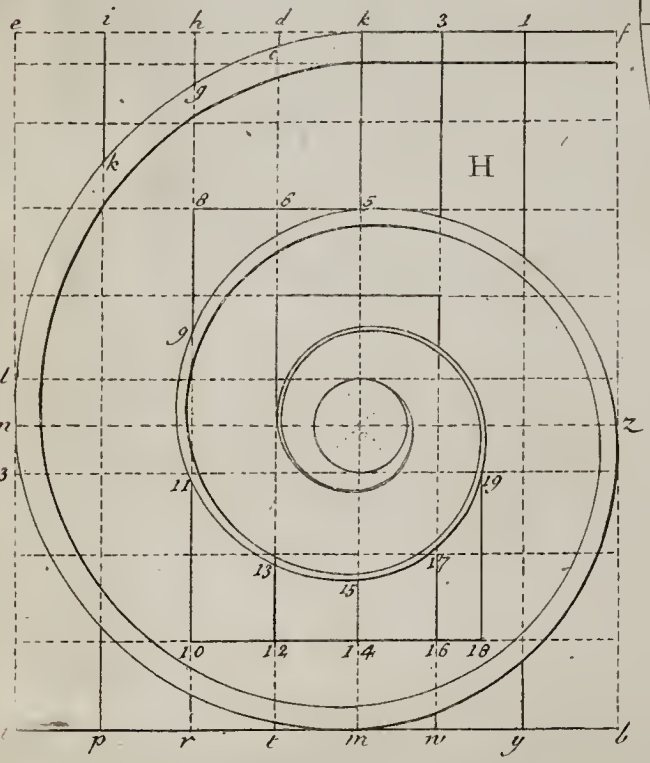
B. L. Delin. & Sculp. 1738.


A
E
M
31 parts
B
F
G
H
N
Fluted Pillaster
29 parts

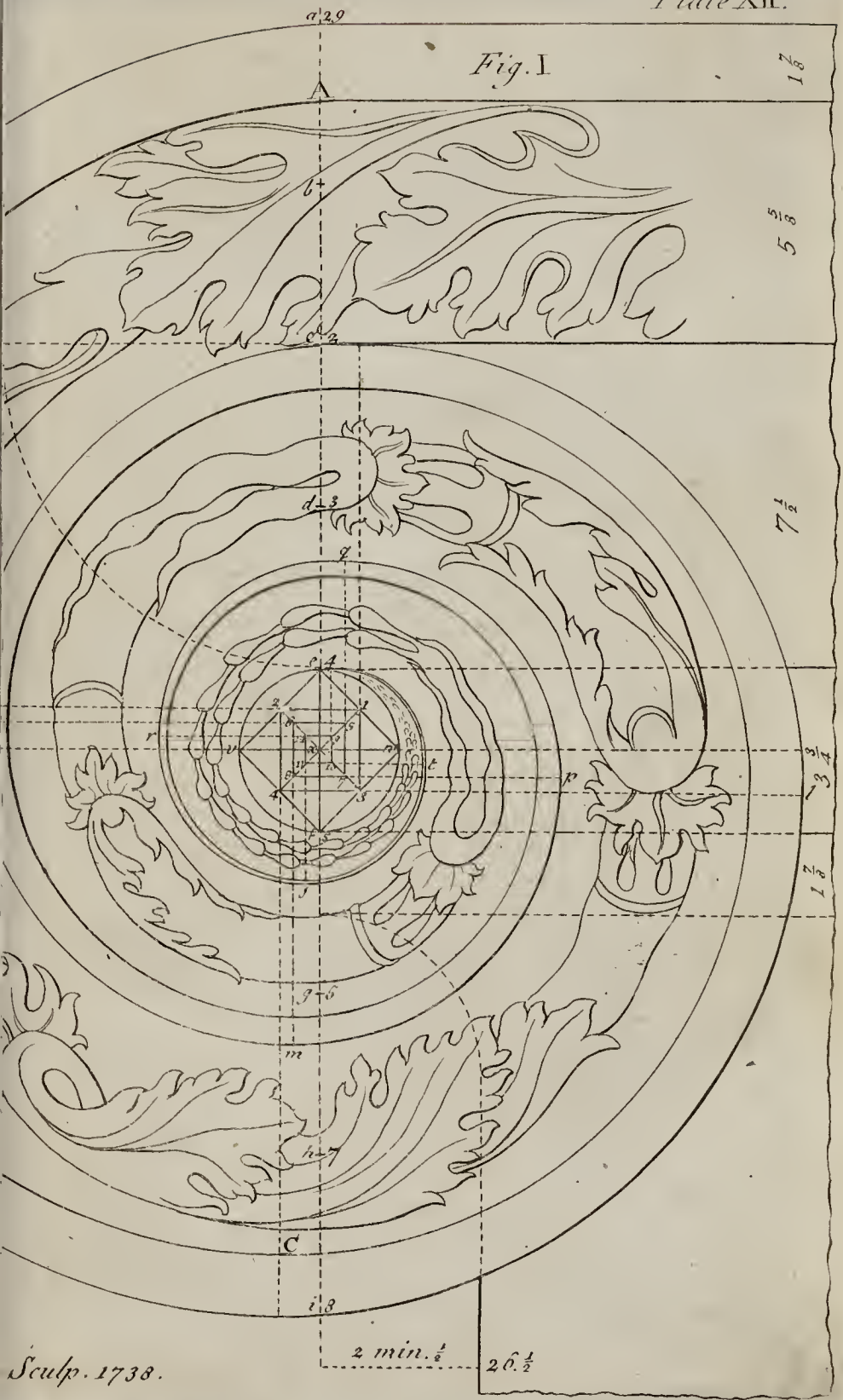








Batty Langley Del



Sculp. 1738.

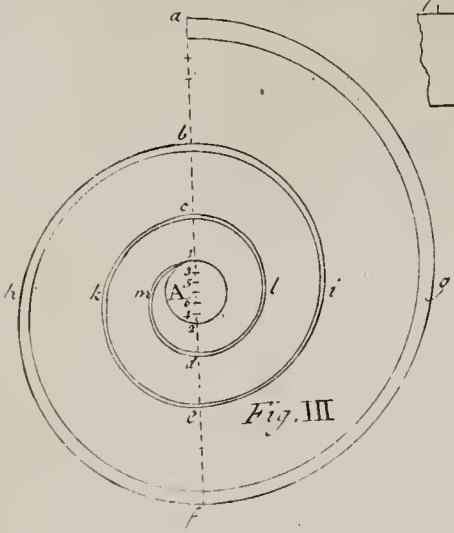
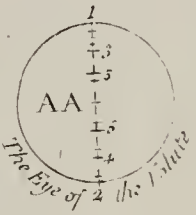


Fig. III



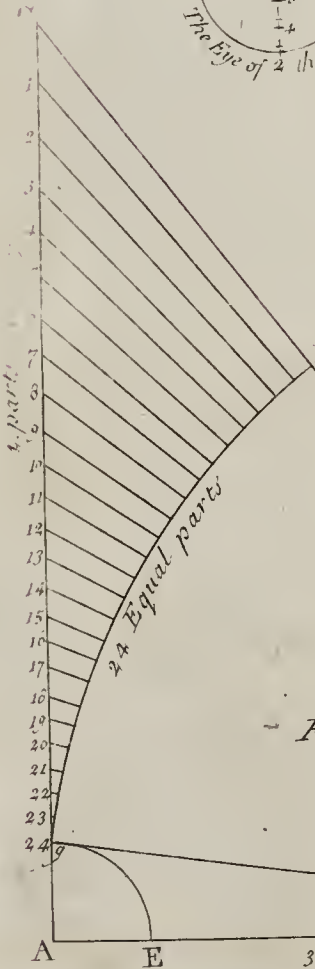


Fig. II

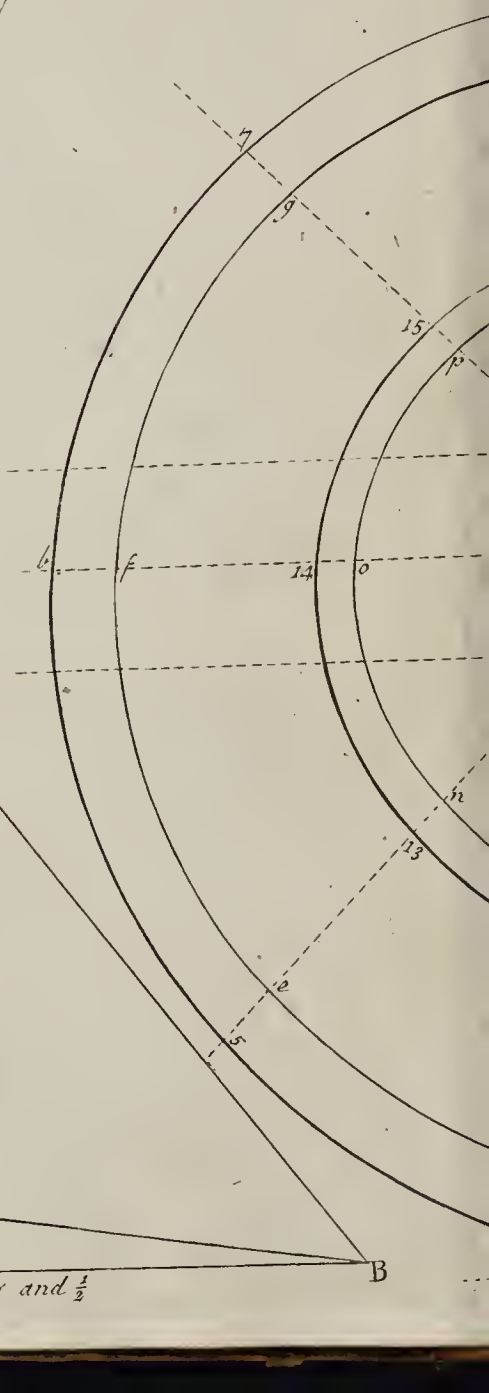
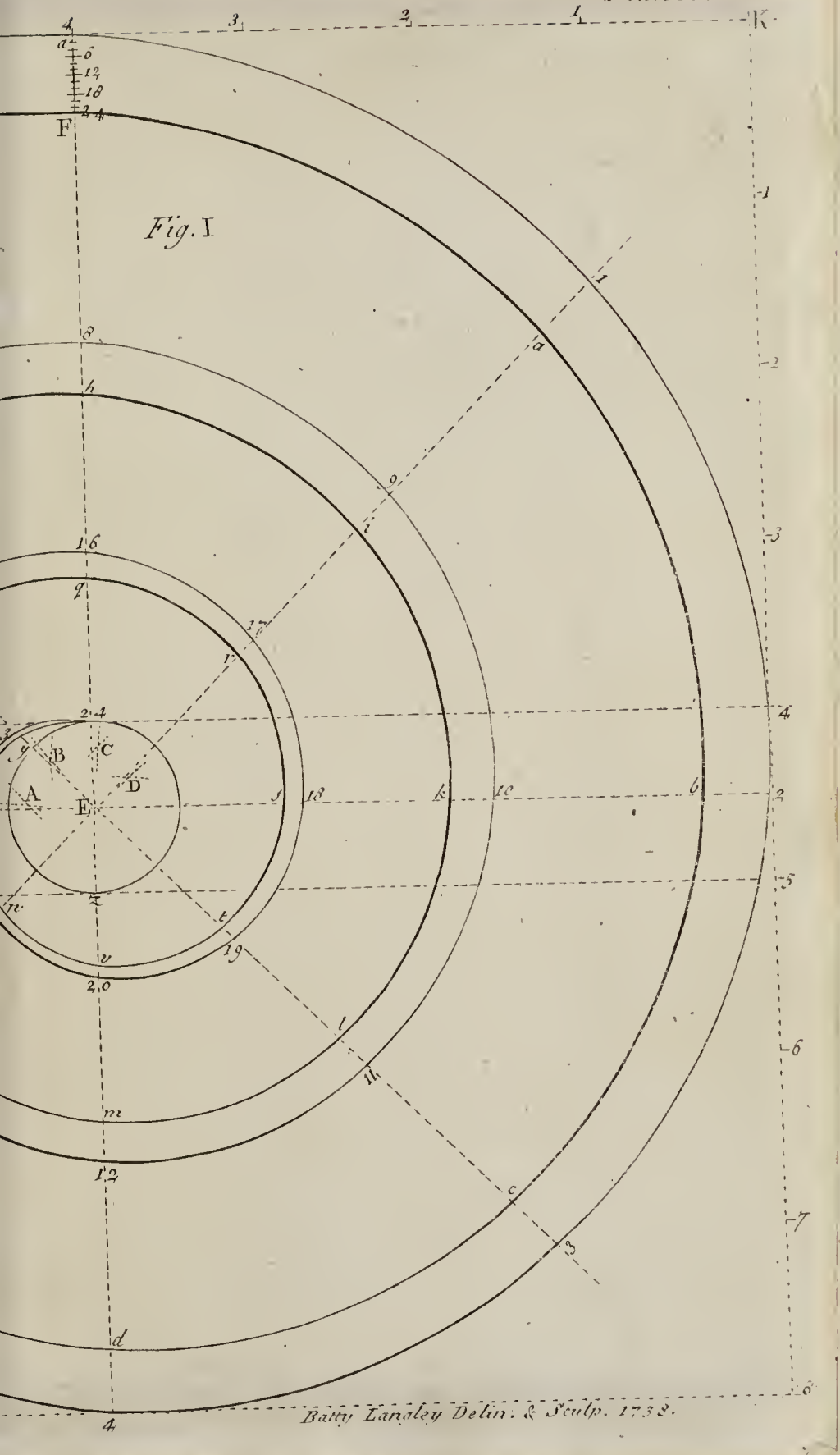
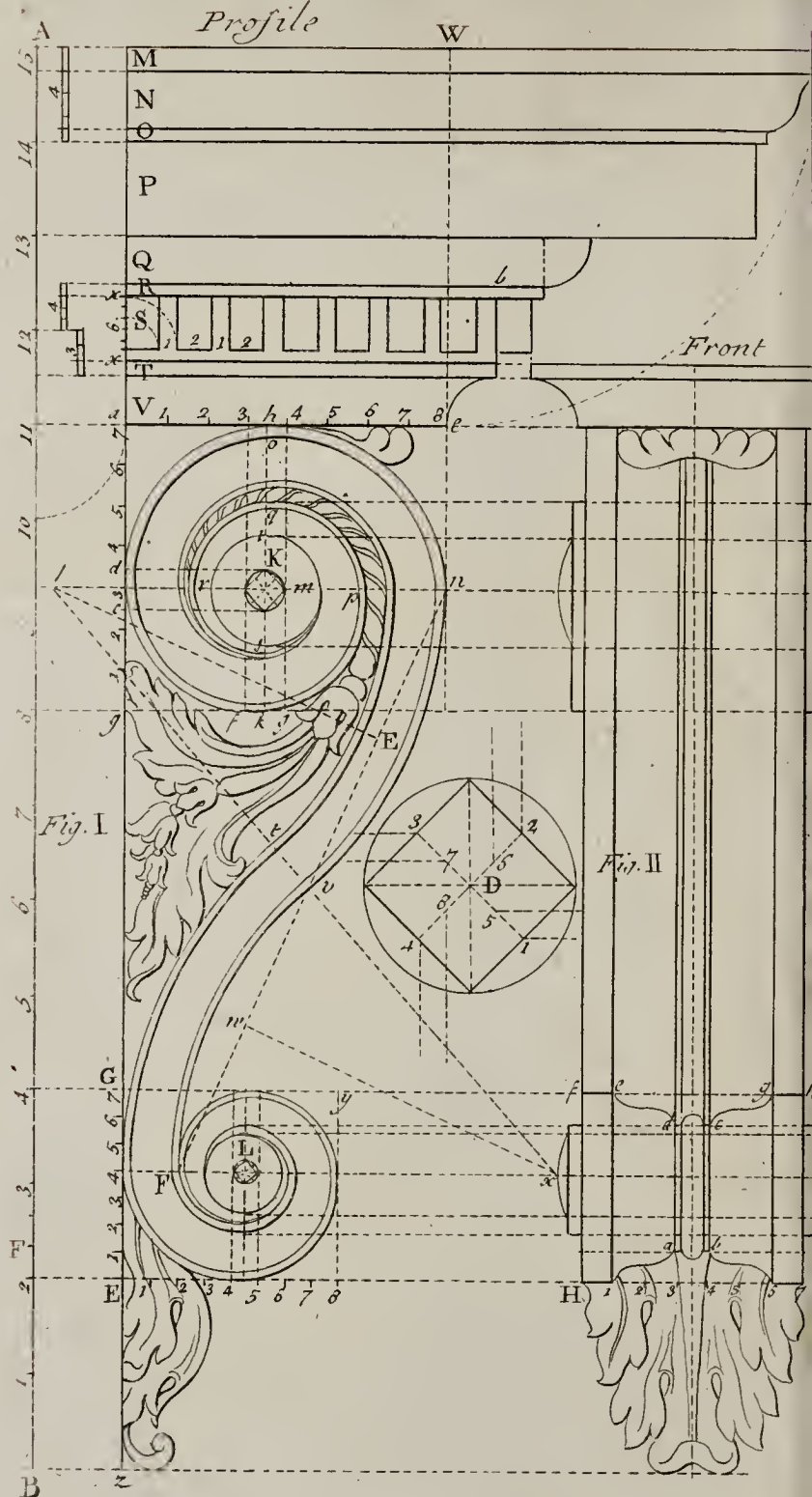


Plate XIII.



Batty Langley Delin. & Sculp. 1733.



Batty Langley Delin. & Sculp. 1738.

The Face or direct view of a Modillian.

Plate XIV.

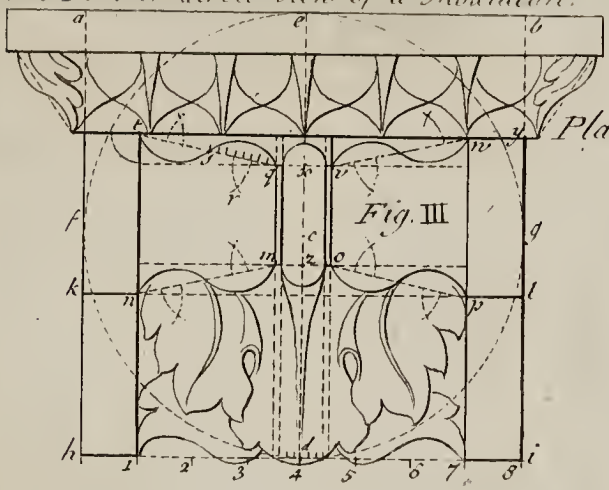


Fig. III

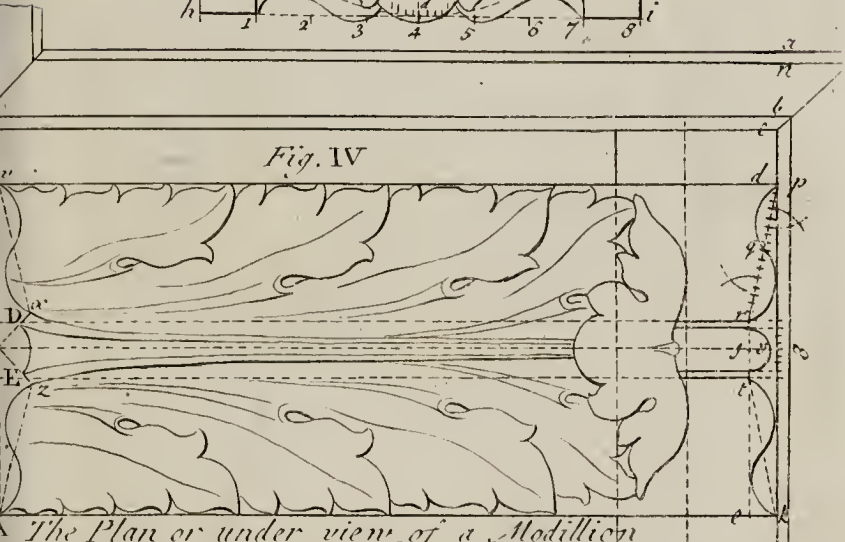


Fig. IV

The Plan or under view of a Modillion

A

The Profile or Side view of a Modillion

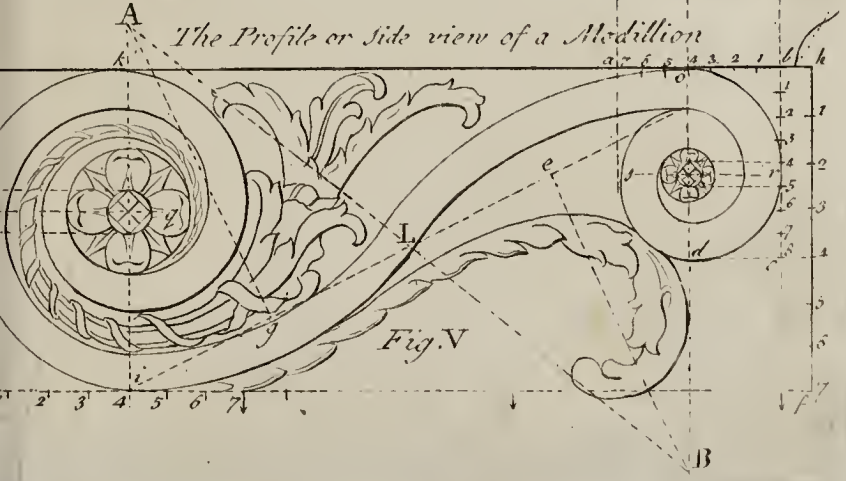
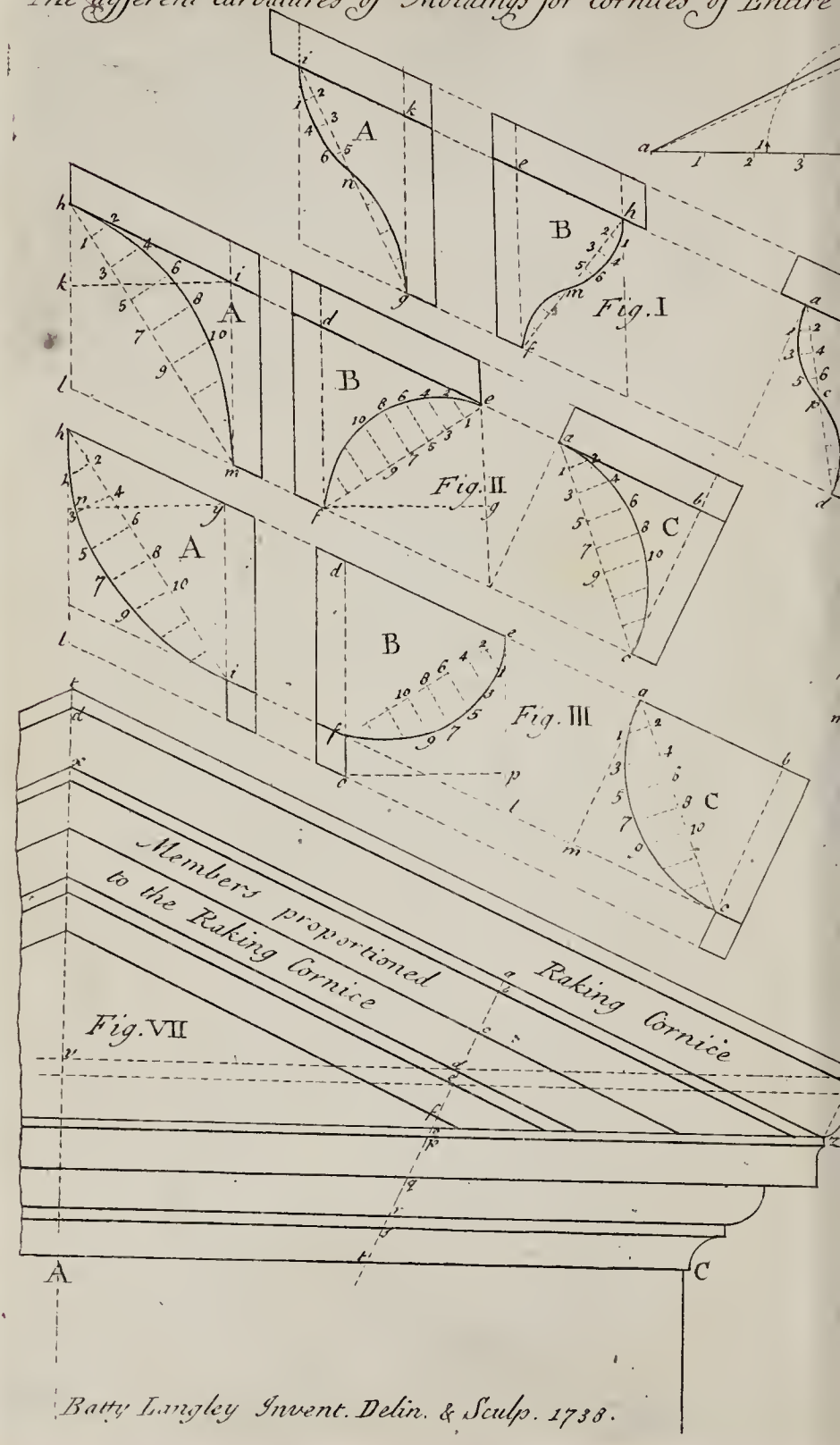


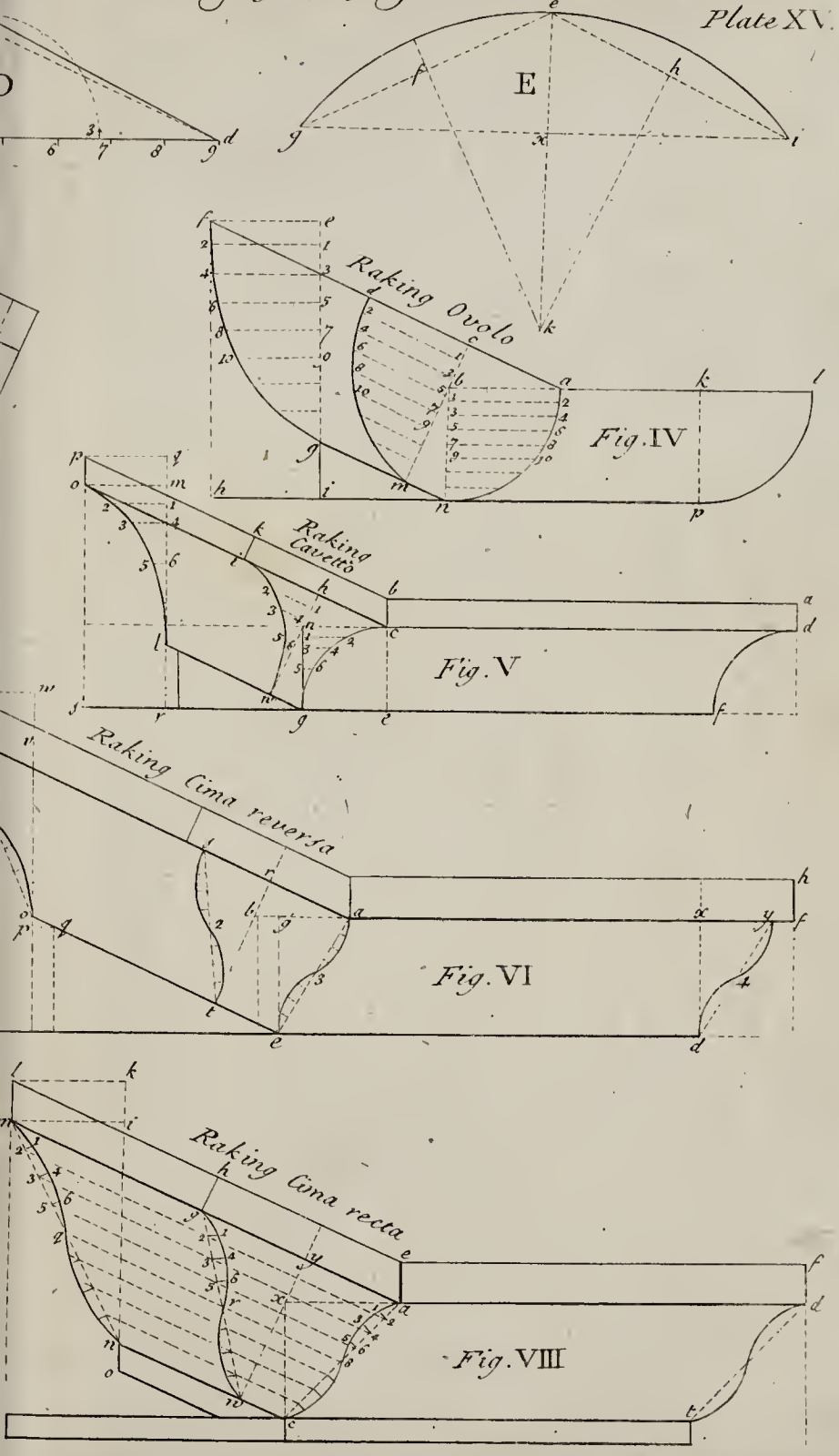
Fig. V

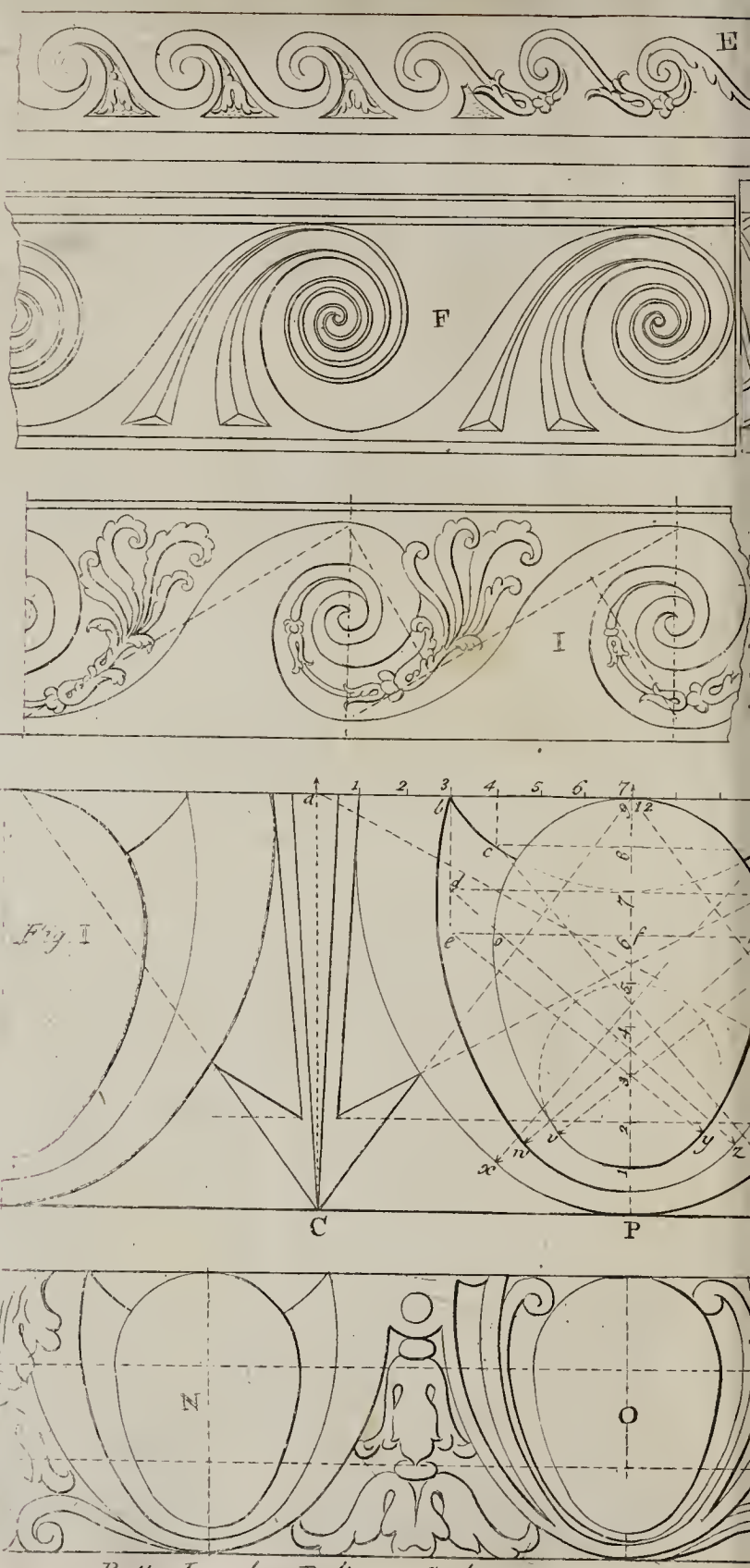
B

The different Curvatures of Mouldings for Cornices of Entire



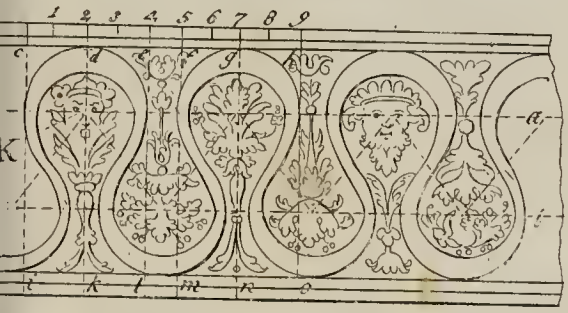
Batty Langley Invent. Delin. & Sculp. 1738.

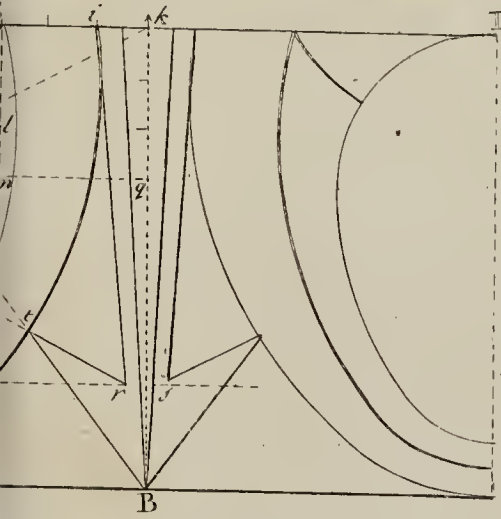

E
Raking Ovolo
Fig. IV
Raking Cavetto
Fig. V
Raking Cima reuersa
Fig. VI
Raking Cima recta
Fig. VIII

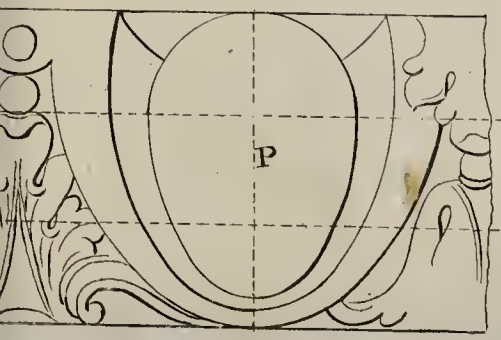


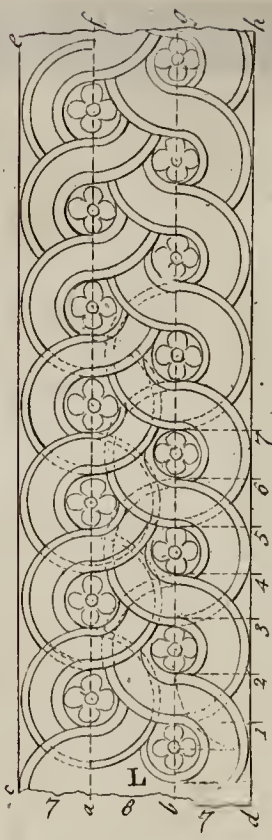
Batty Langley Delin. & Sculp. 1738.

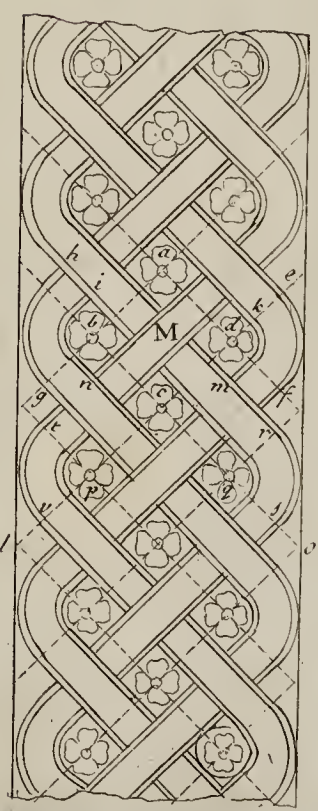
Plate XVI.

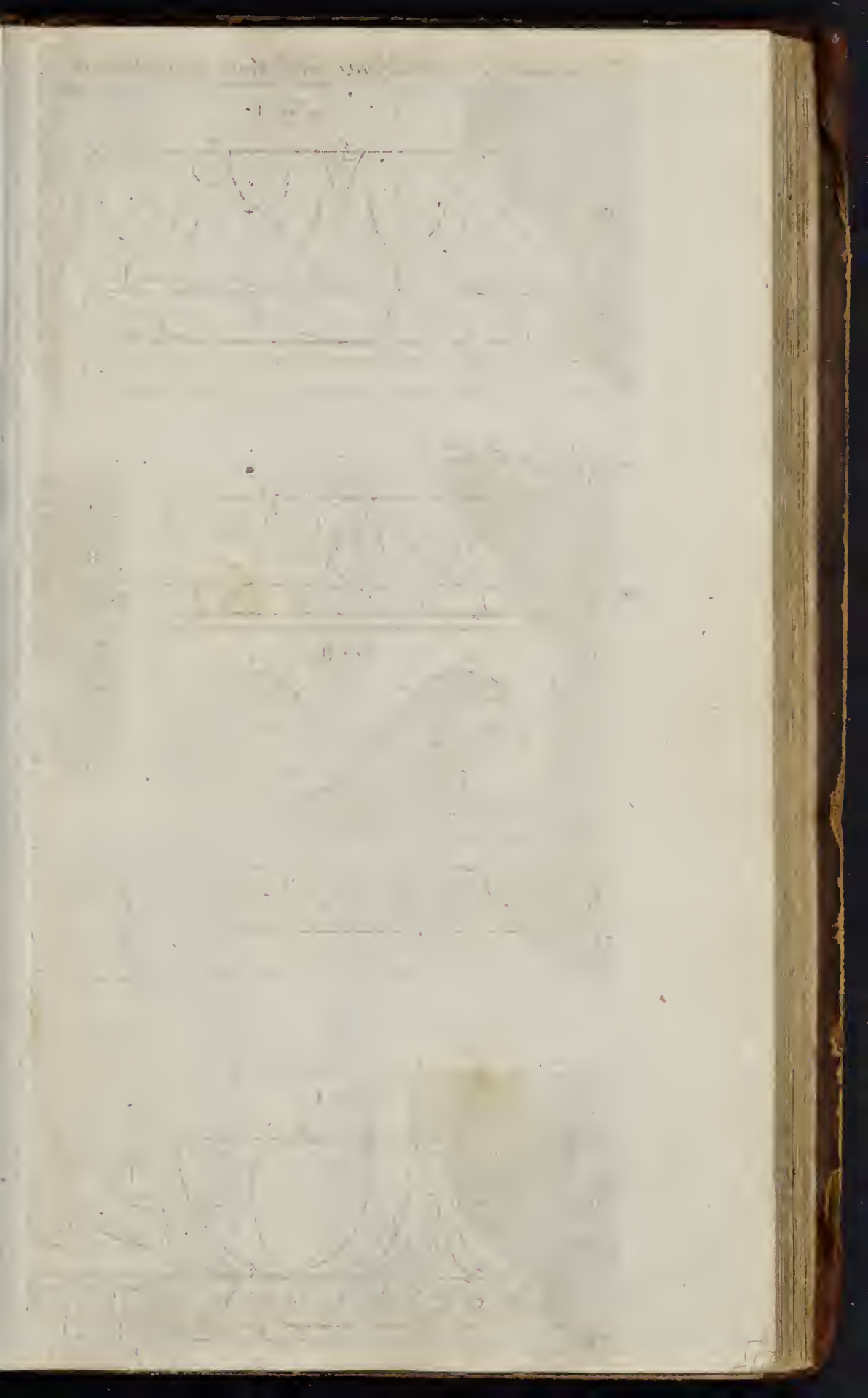






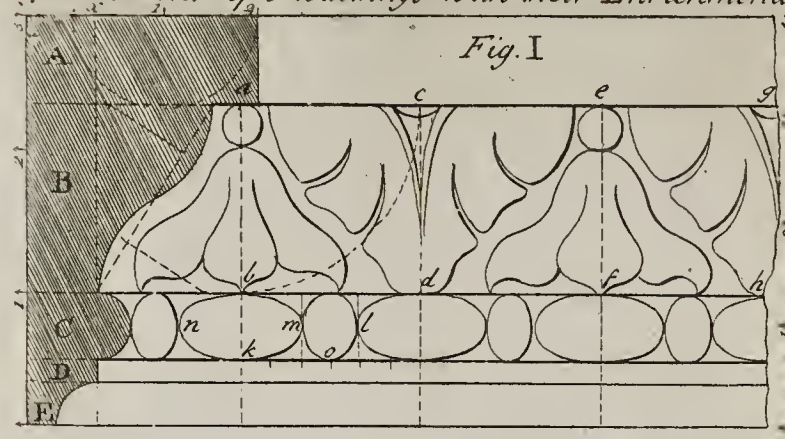


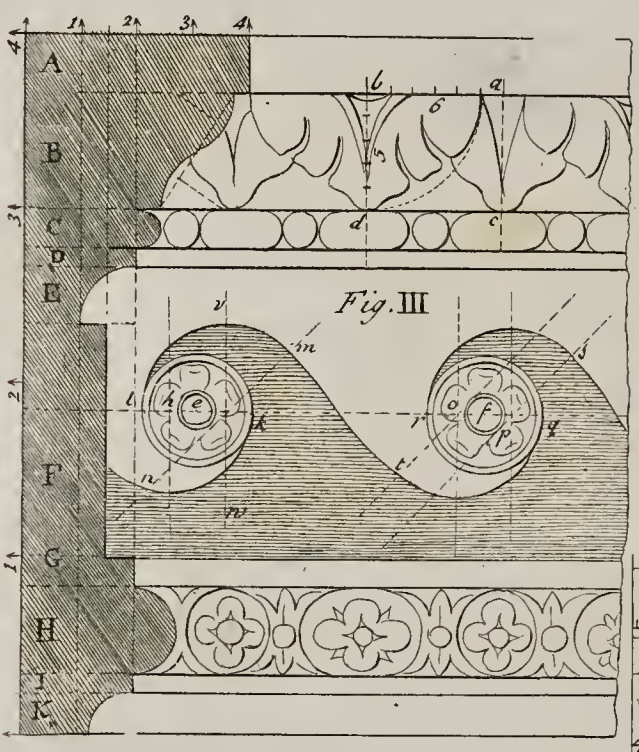


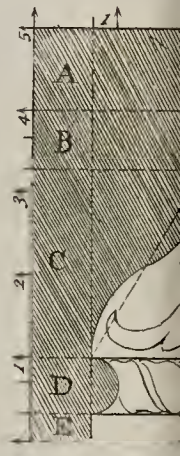


Sections of Mouldings with their Enrichments for

Fig. I







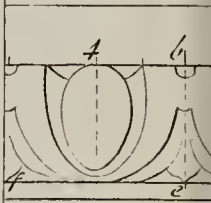
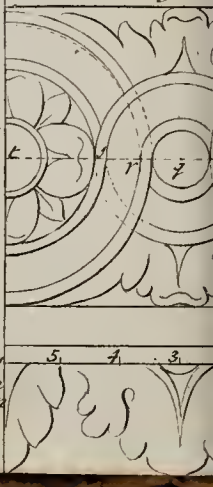


Fig. V



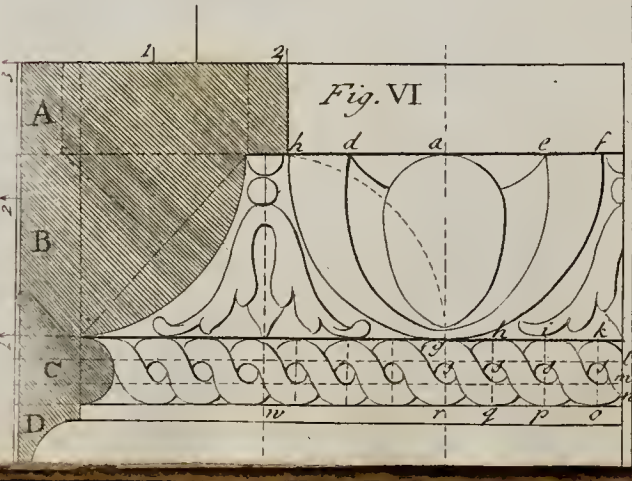


Fig. II

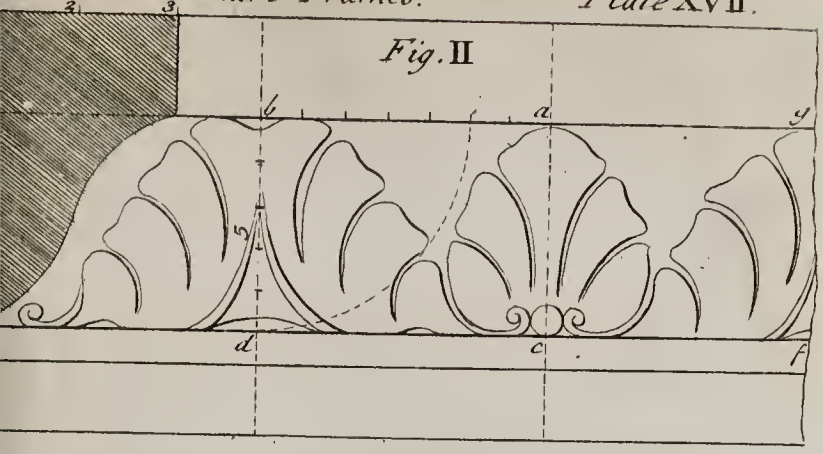


Fig. IV

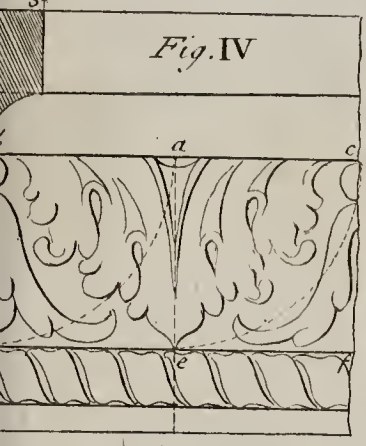
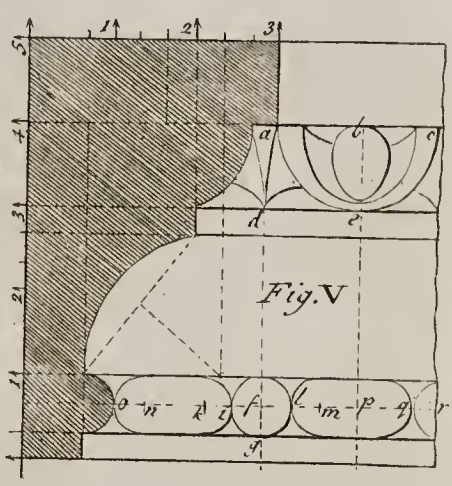


Fig. V



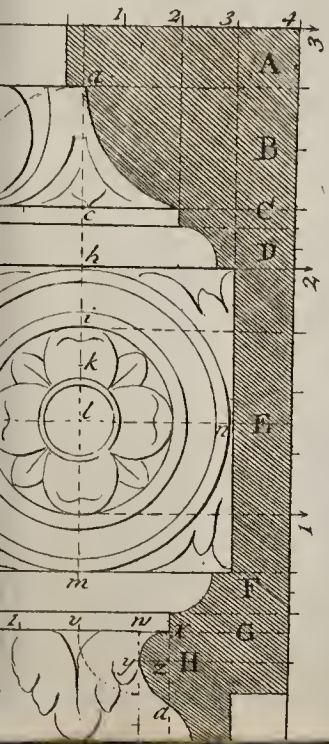
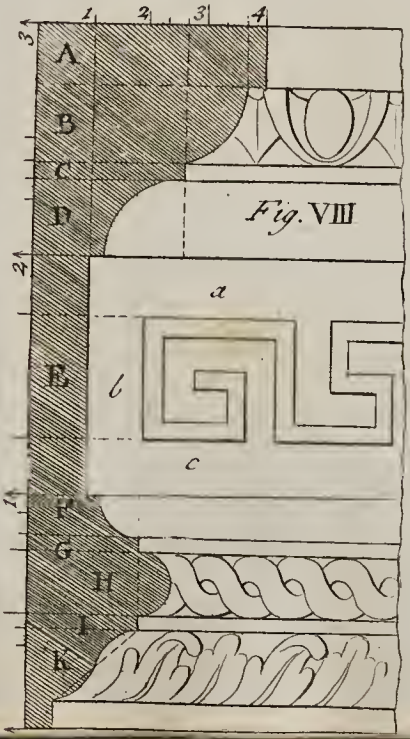
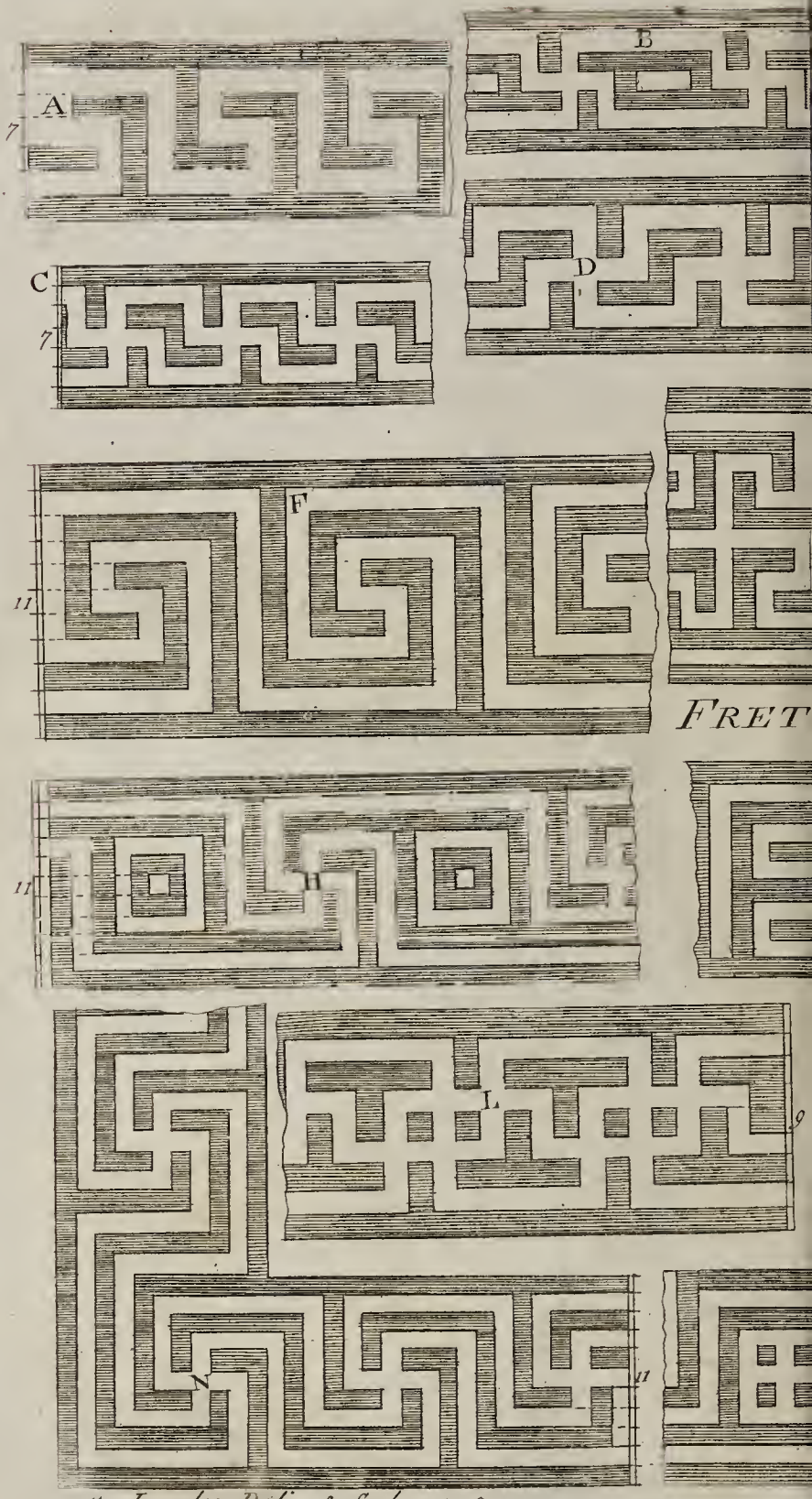
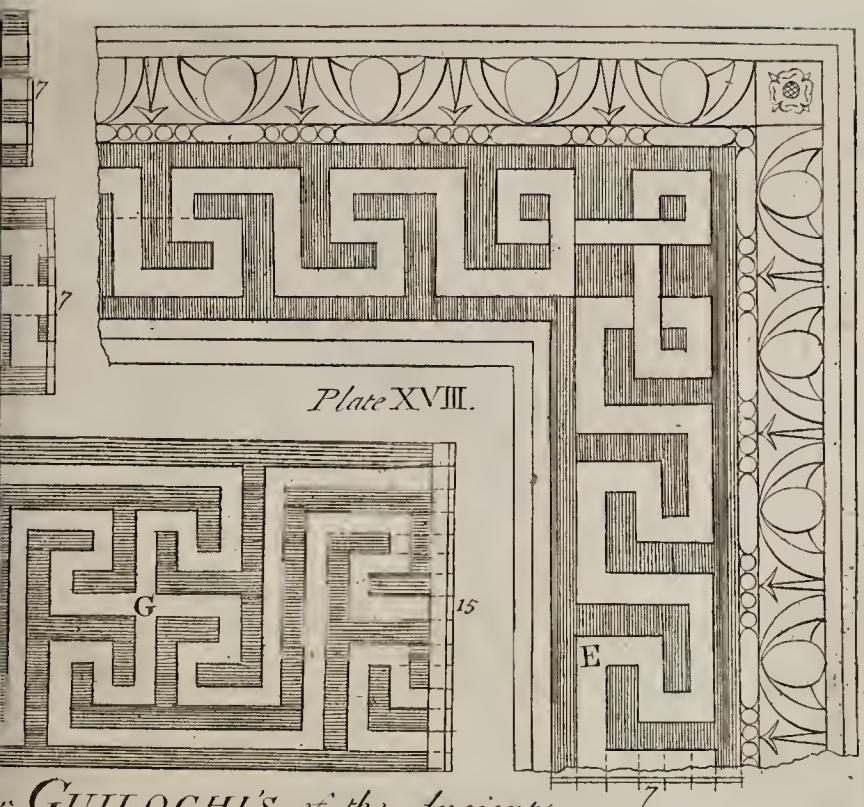


Fig. VIII

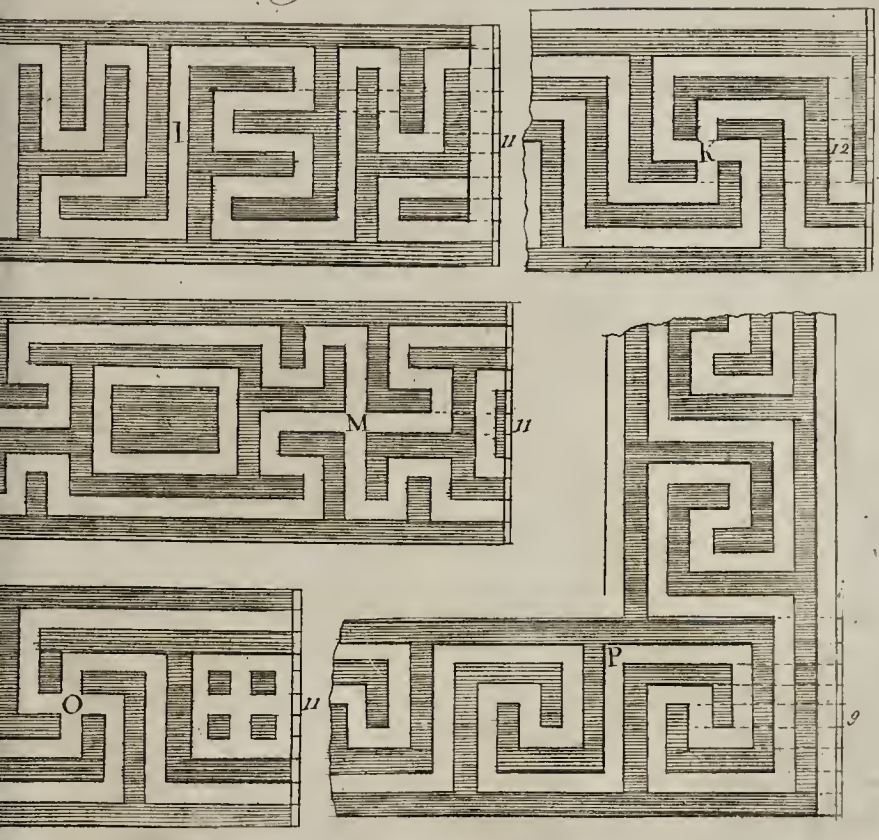




Batty Langley Delin & Sculp. 1738.

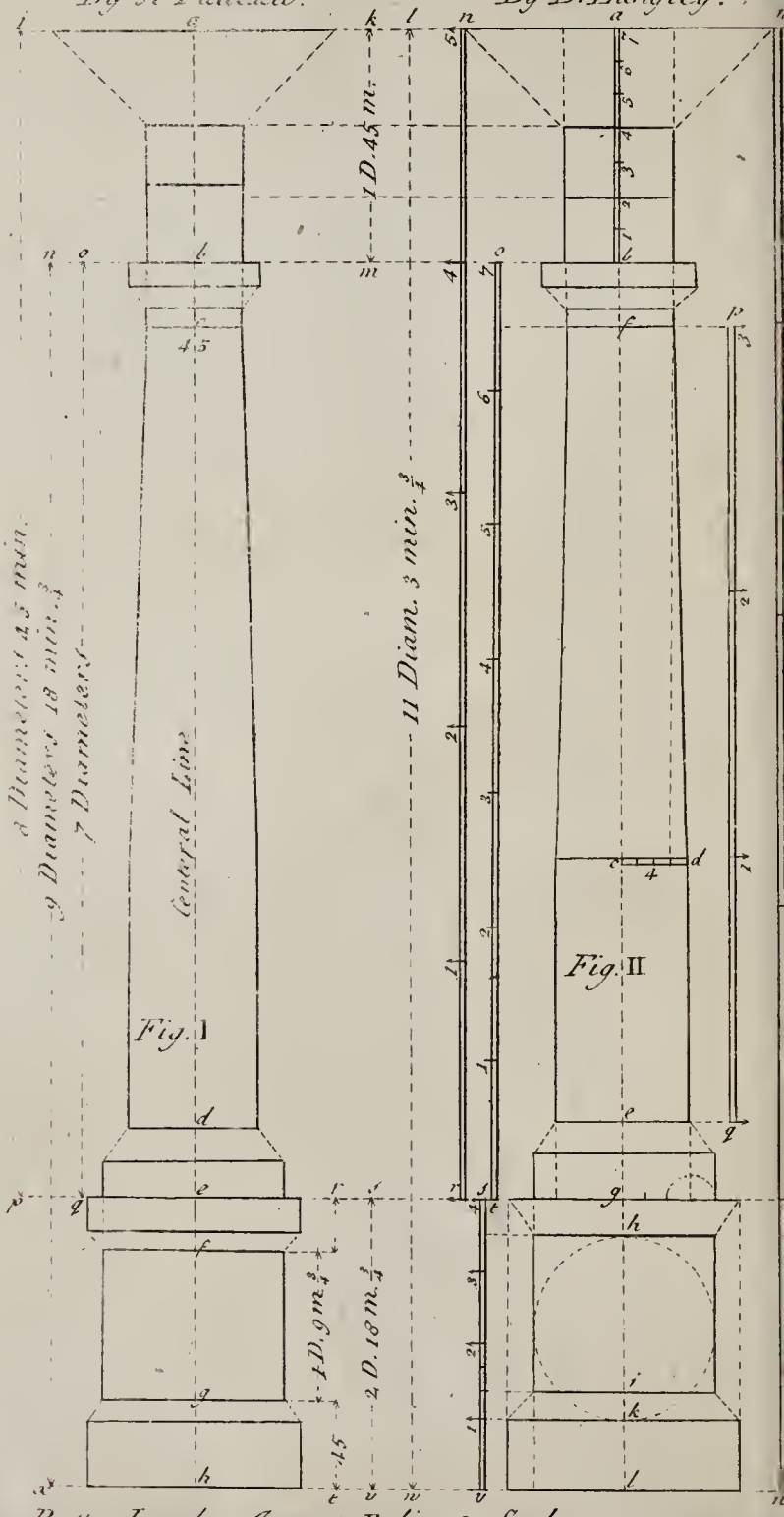


GUILOCHI'S of the Ancients



The Principal Parts of the Tuscan Order.

By A. Palladio. *By B. Langley.*



Batty Langley Invent. Delin. & Sculp. 1738.

Plate XIX.

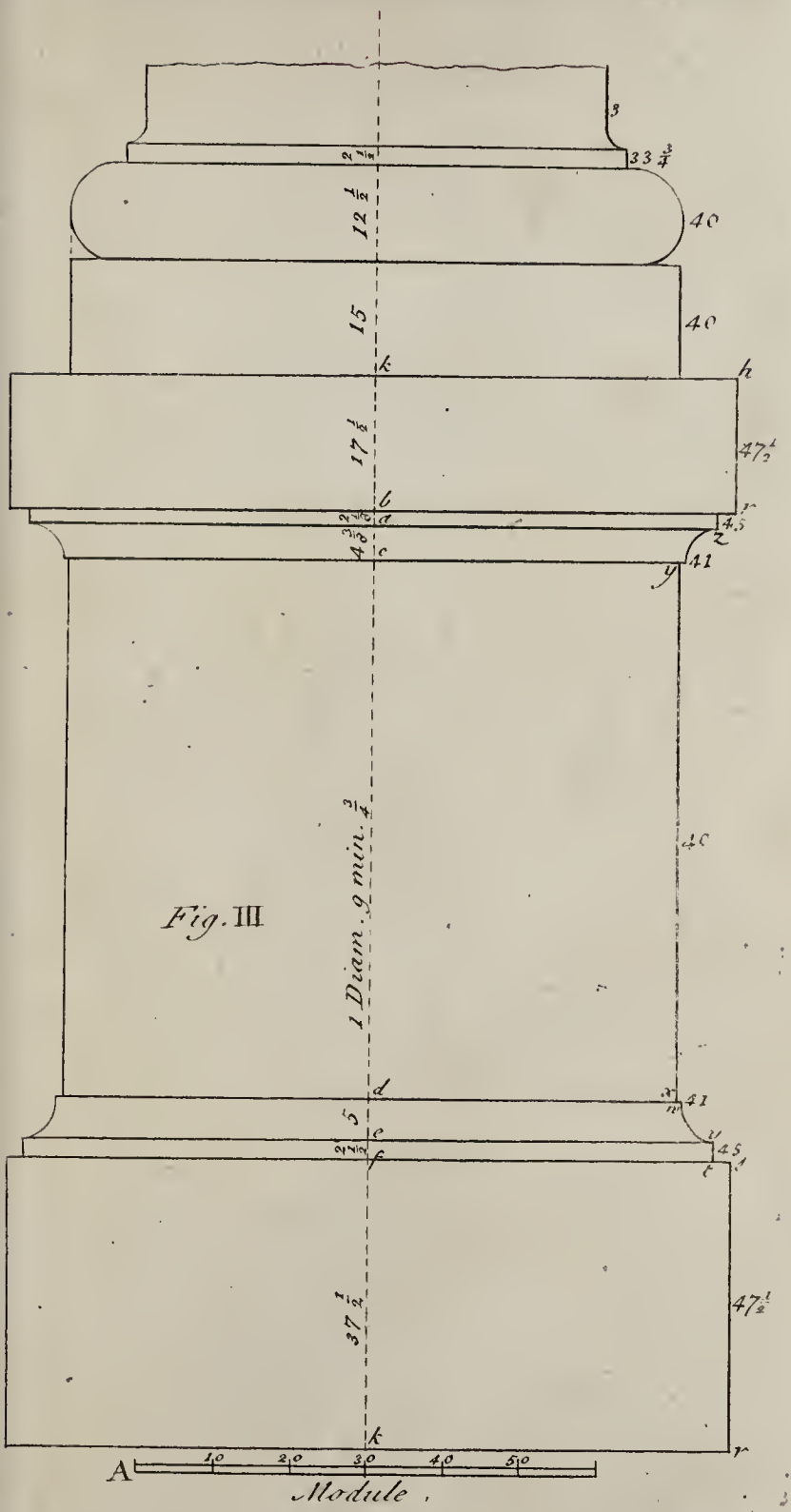
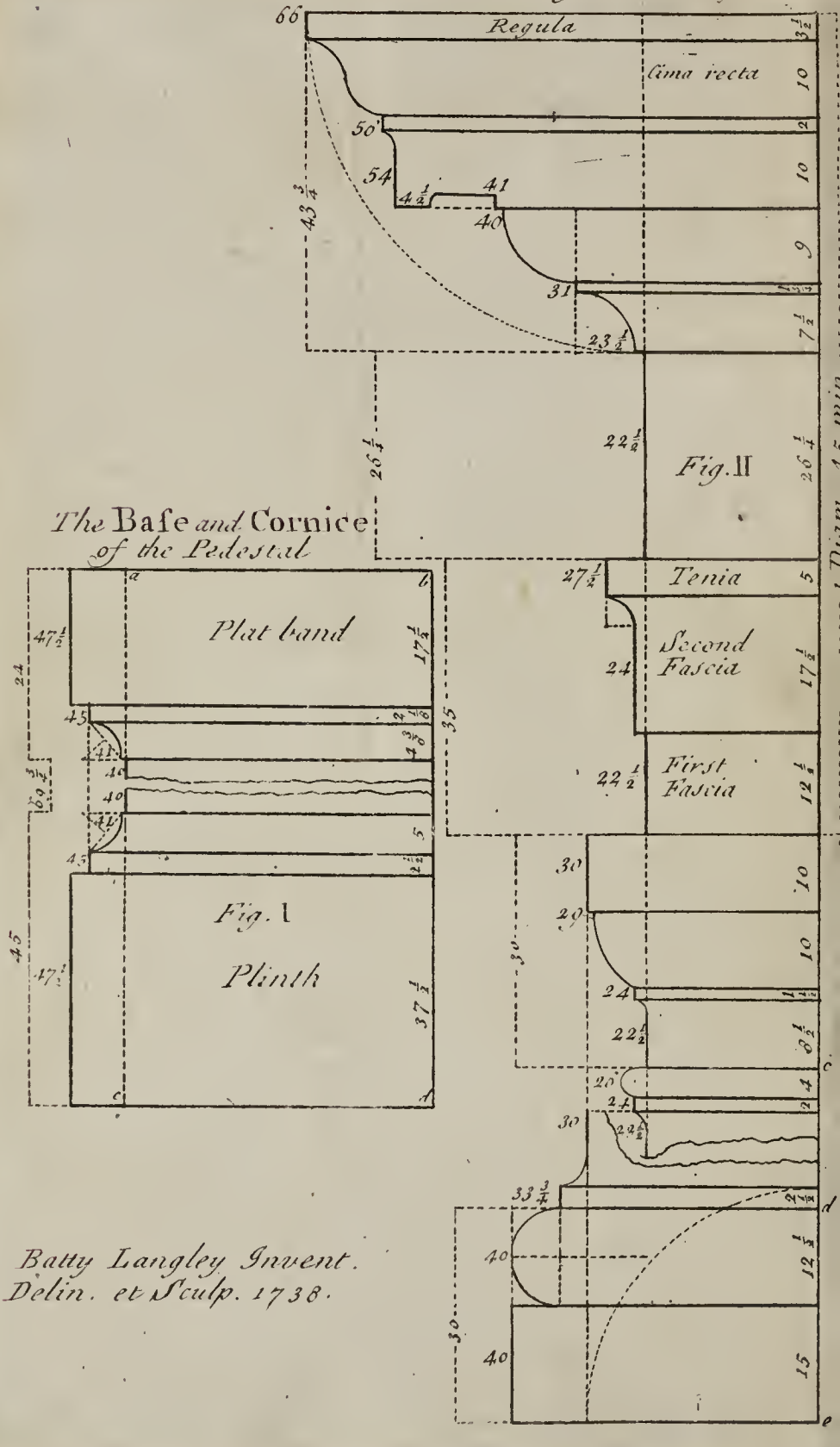


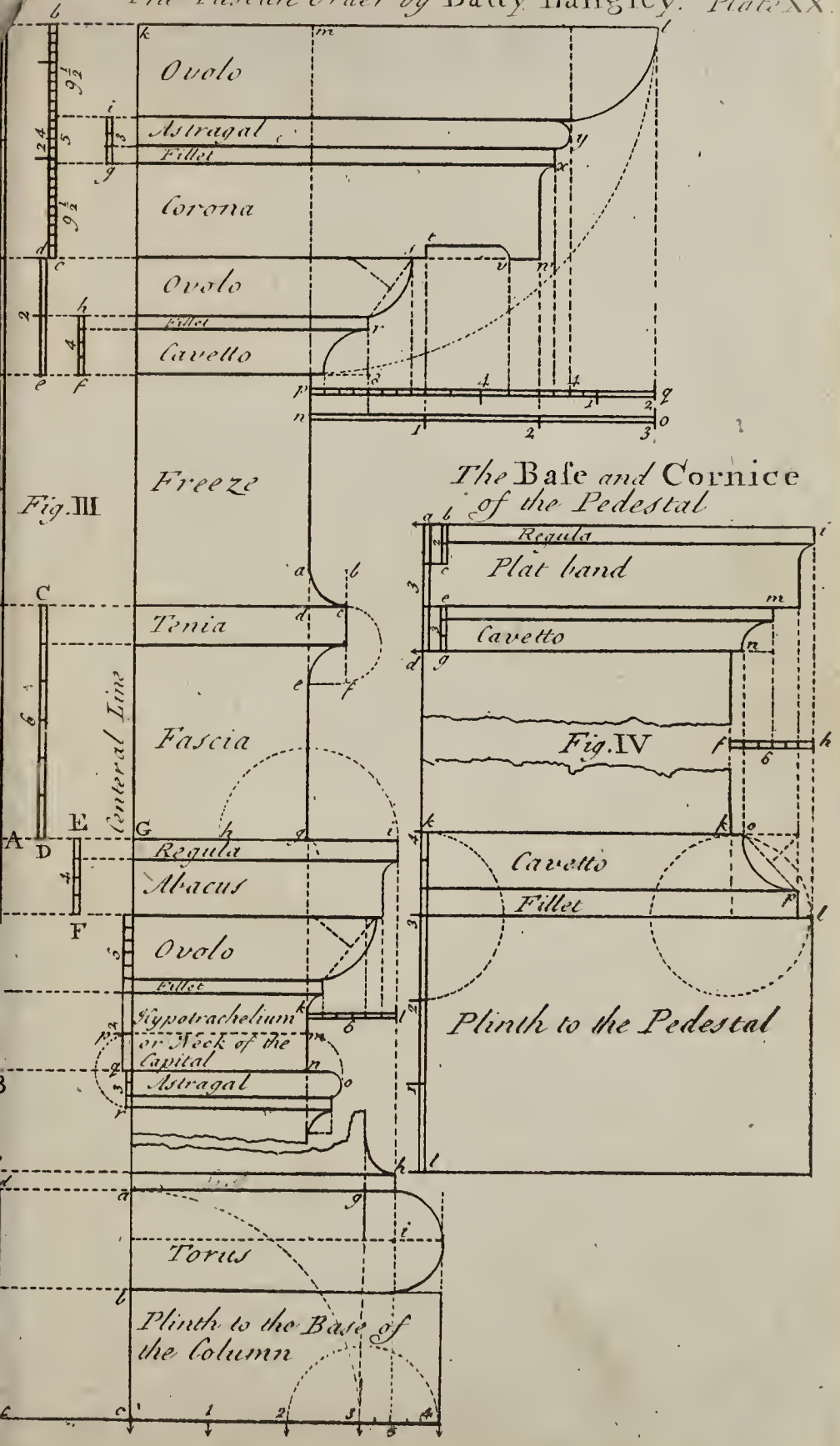
Fig. III

The Tuscan Order by Andrea Palladio.



The Base and Cornice of the Pedestal

Batty Langley Invent. Delin. et Sculp. 1738.


Ovolo
Astragal
Fillet
Corona
Ovolo
Fillet
Cavetto
Freeze
Fig. III
Tenia
Fascia
Central Line
Regula
Abacus
Ovolo
Fillet
Hypotrachelium or Neck of the Capital
Astragal
Torus
Plinth to the Base of the Column
The Base and Cornice of the Pedestal
Regula
Plat band
Cavetto
Fig. IV
Cavetto
Fillet
Plinth to the Pedestal

Tuscan Frontispi

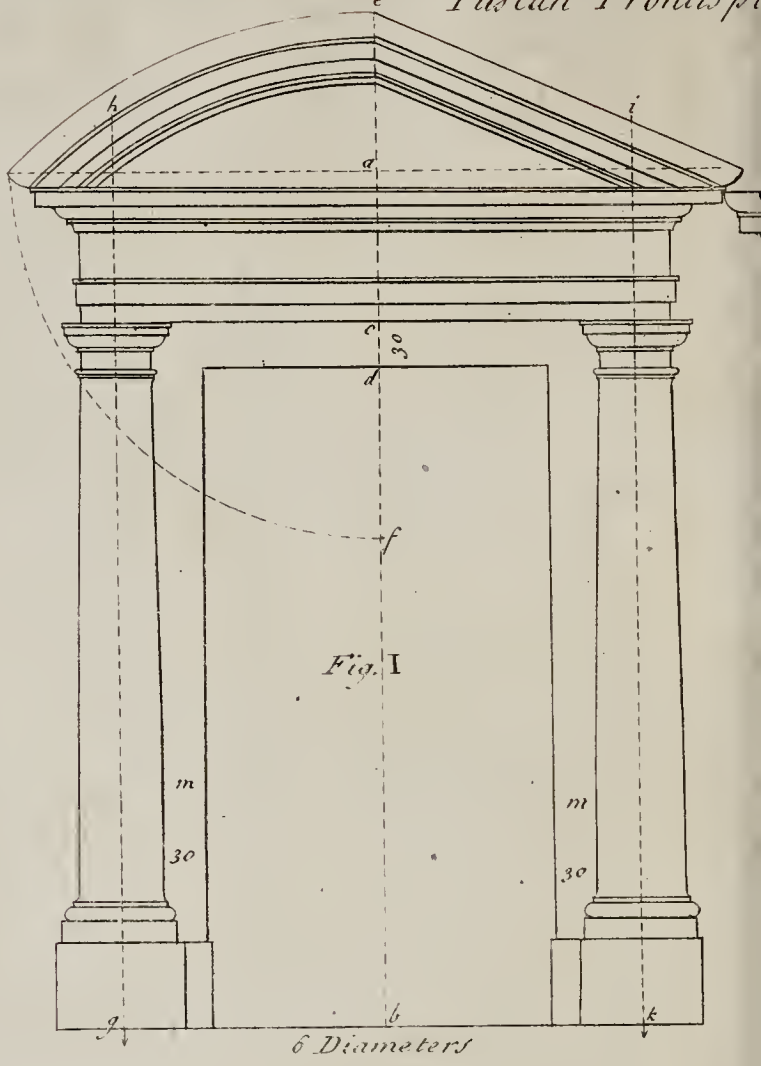
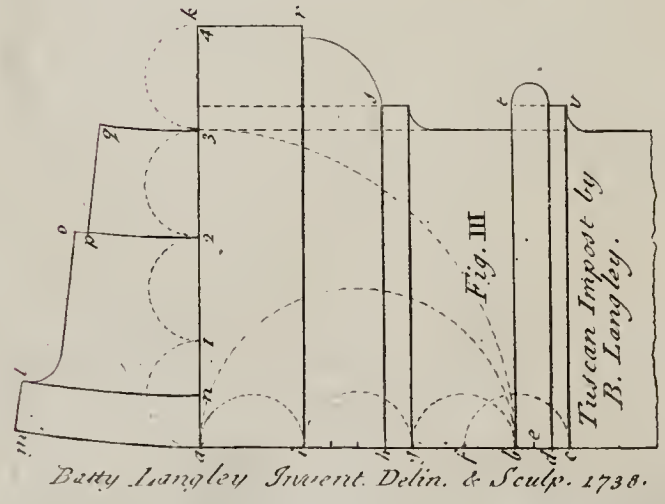


Fig. I

6 Diameters



Batty Langley Invent. Delin. & Sculp. 1738.

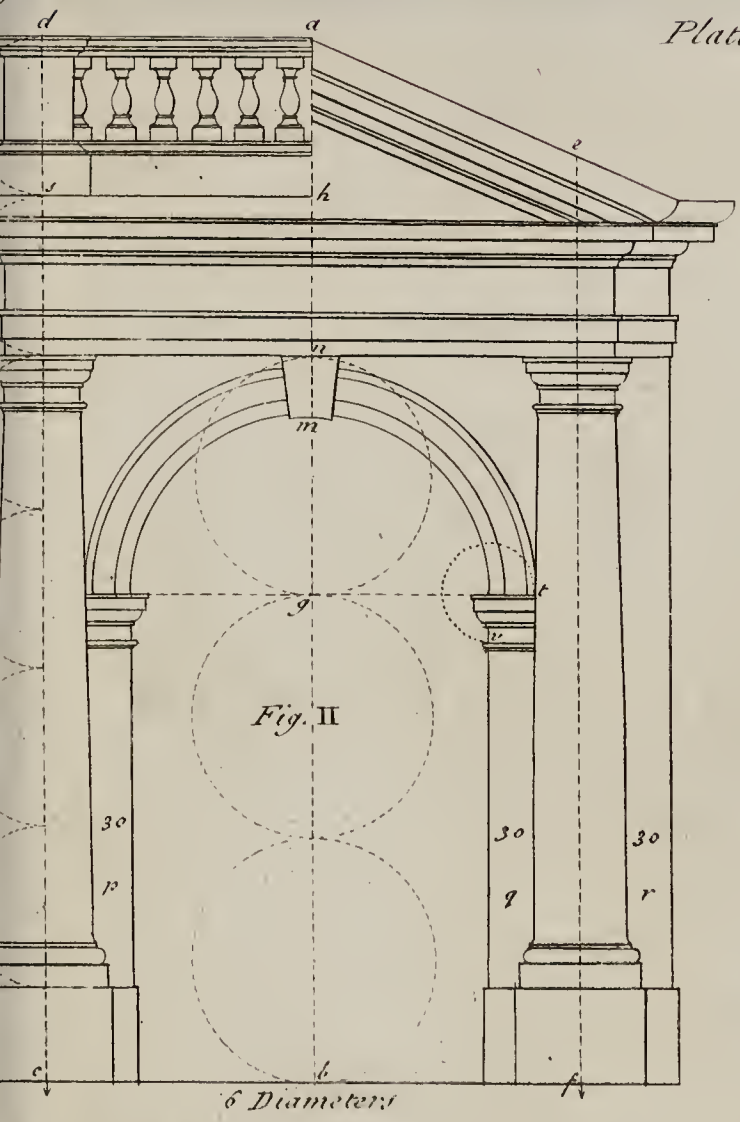


Fig. II

6 Diameters

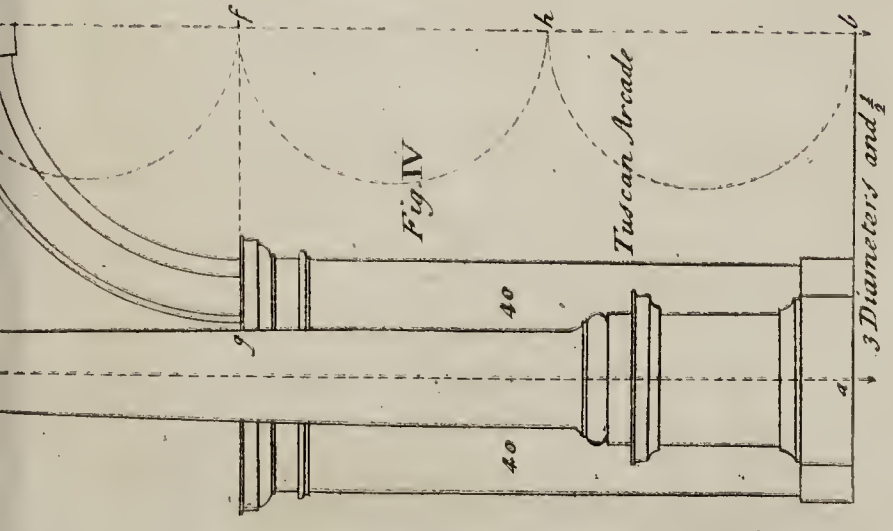
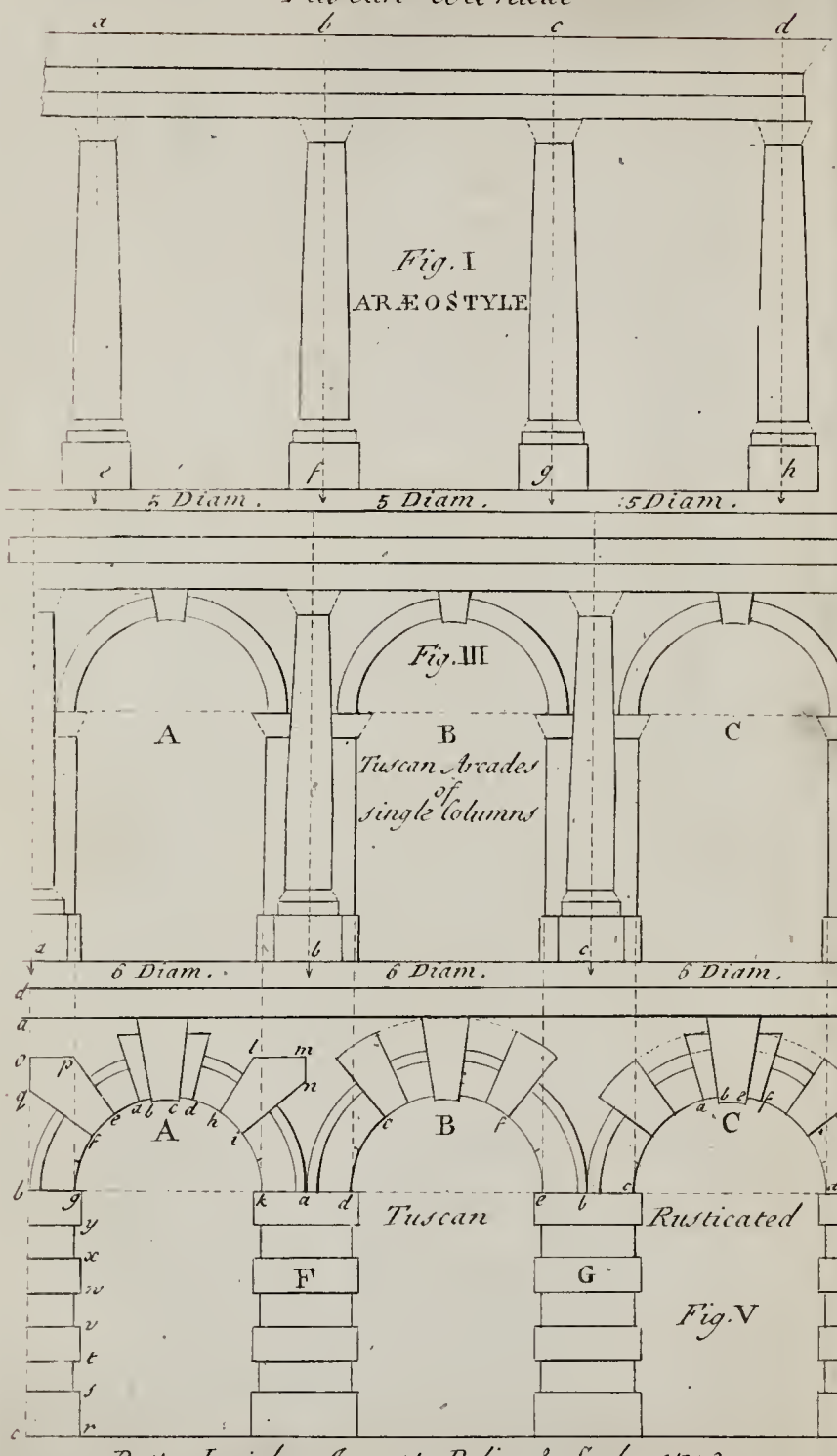


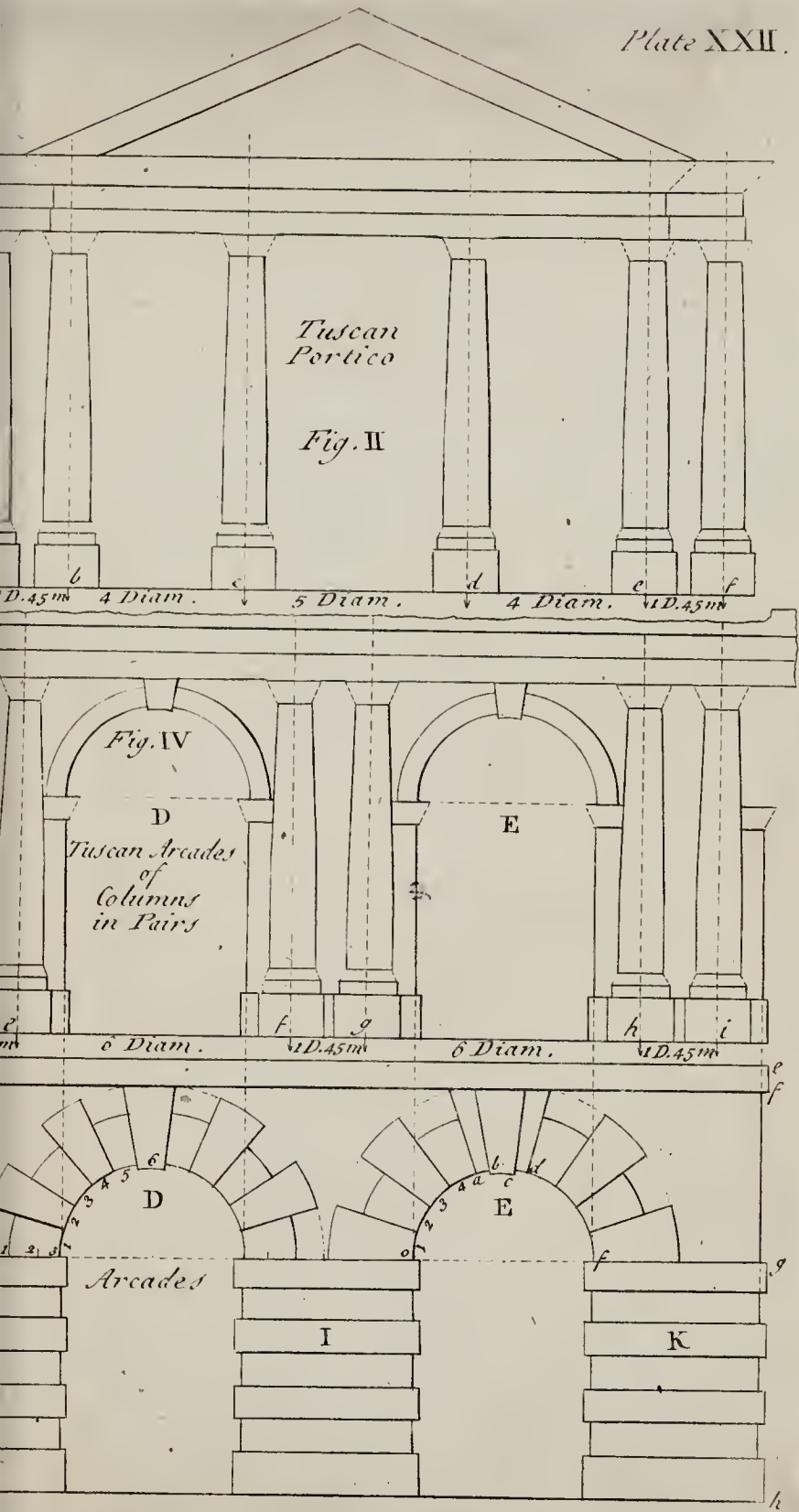
Fig. IV

Tuscan Arcade

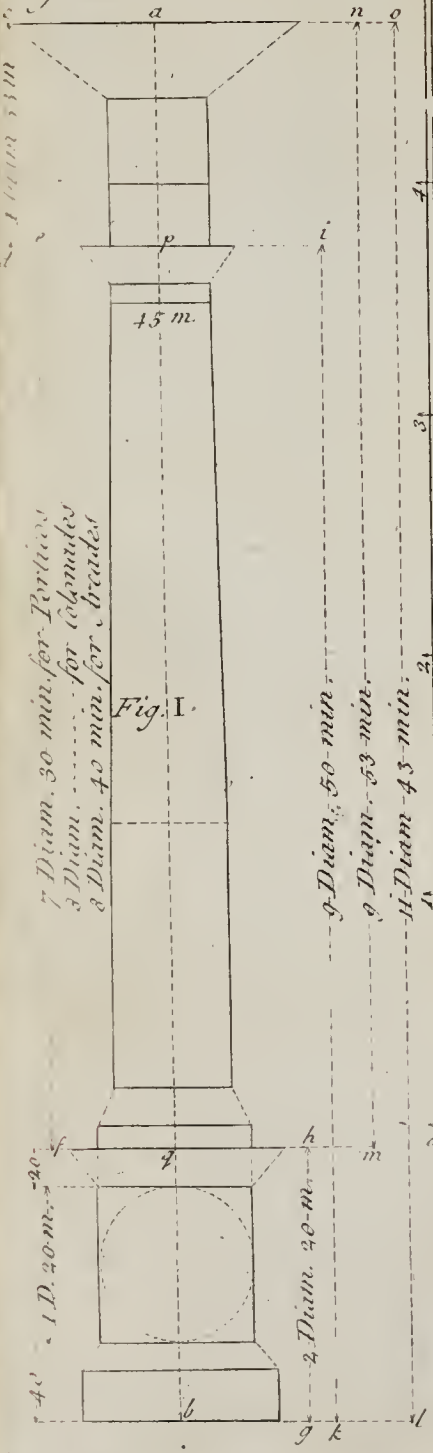
Tuscan Colonade



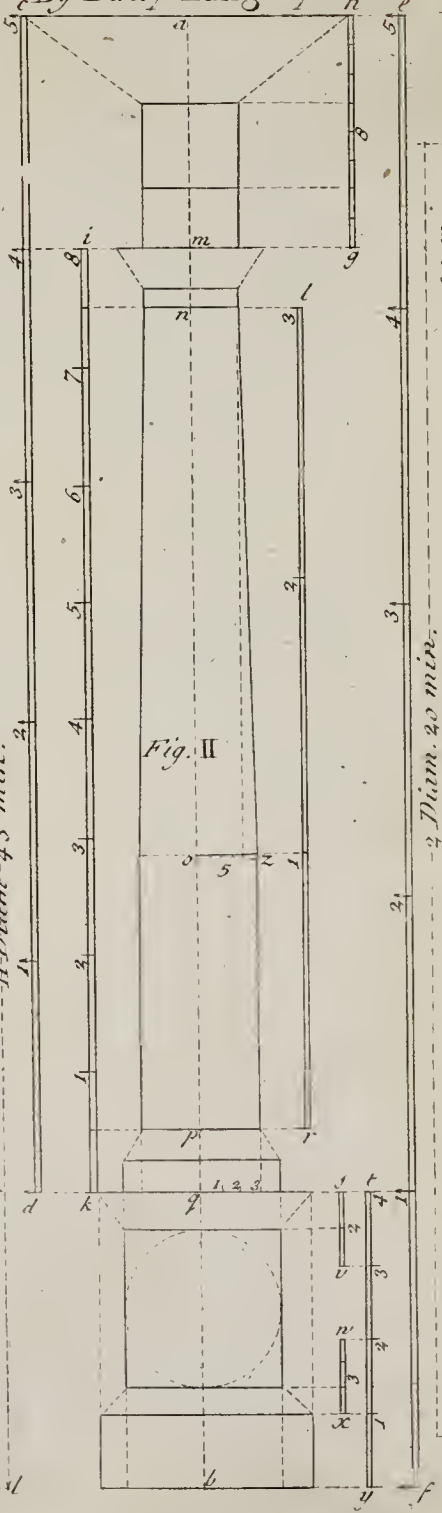
Batty Langley Invent. Delin. & Sculp. 1738.


Tuscan Portico
Fig. II
b
c
d
e
f
D.45m
4 Diam.
5 Diam.
4 Diam.
1D.45m
Fig. IV
D
Tuscan Arcades of Columns in Pairs
E
e
f
g
h
i
6 Diam.
1D.45m
6 Diam.
1D.45m
e
f
D
E
Arcades
I
K
g
h

By Andrea Palladio



By Batty Langley



Dorick Pedestal
drea Palladio

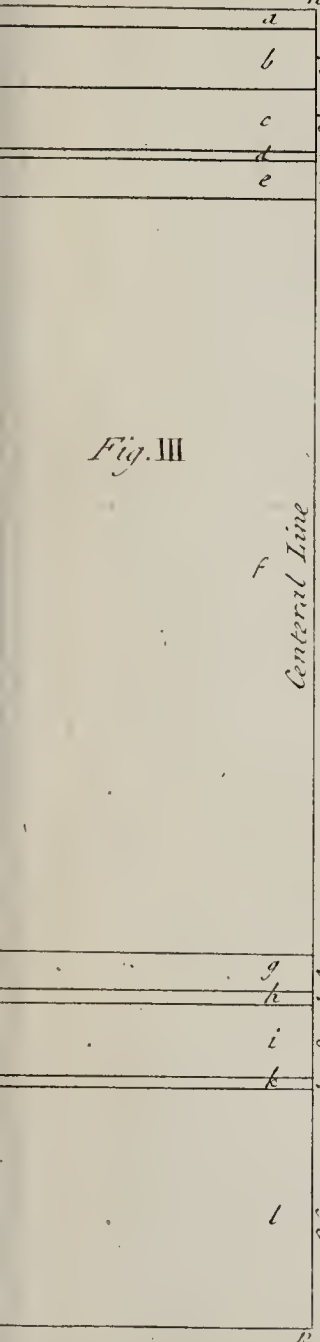


Fig. III

The Dorick Pedestal
By Batty Langley

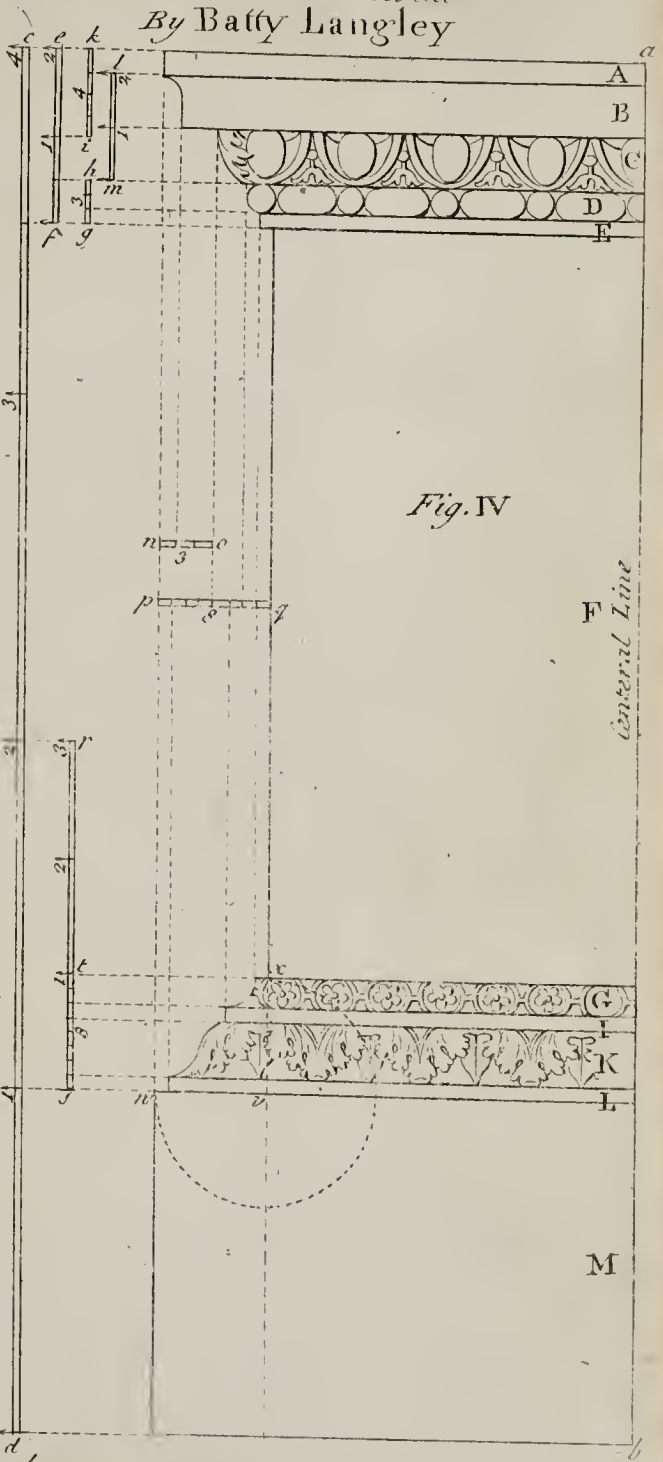
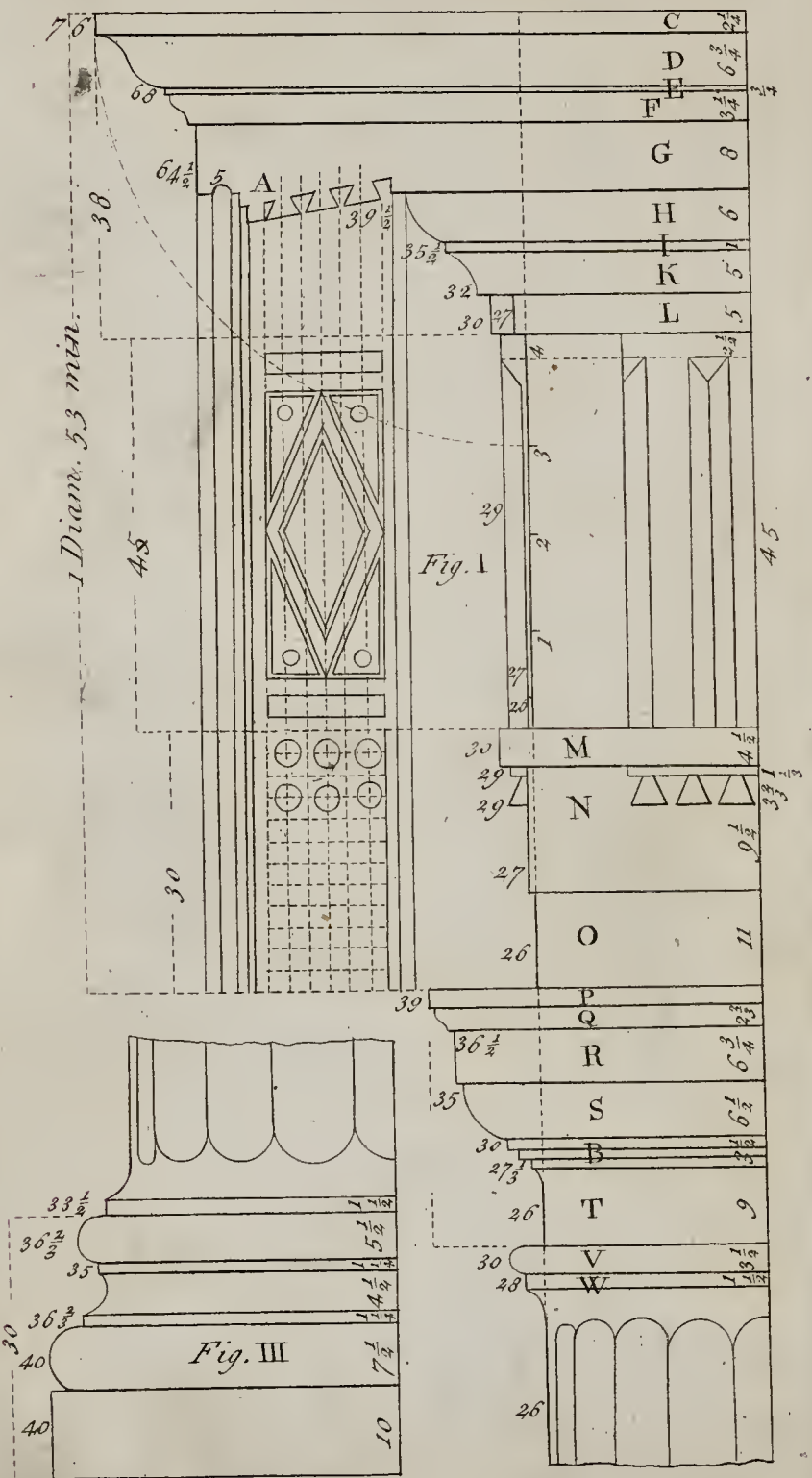


Fig. IV

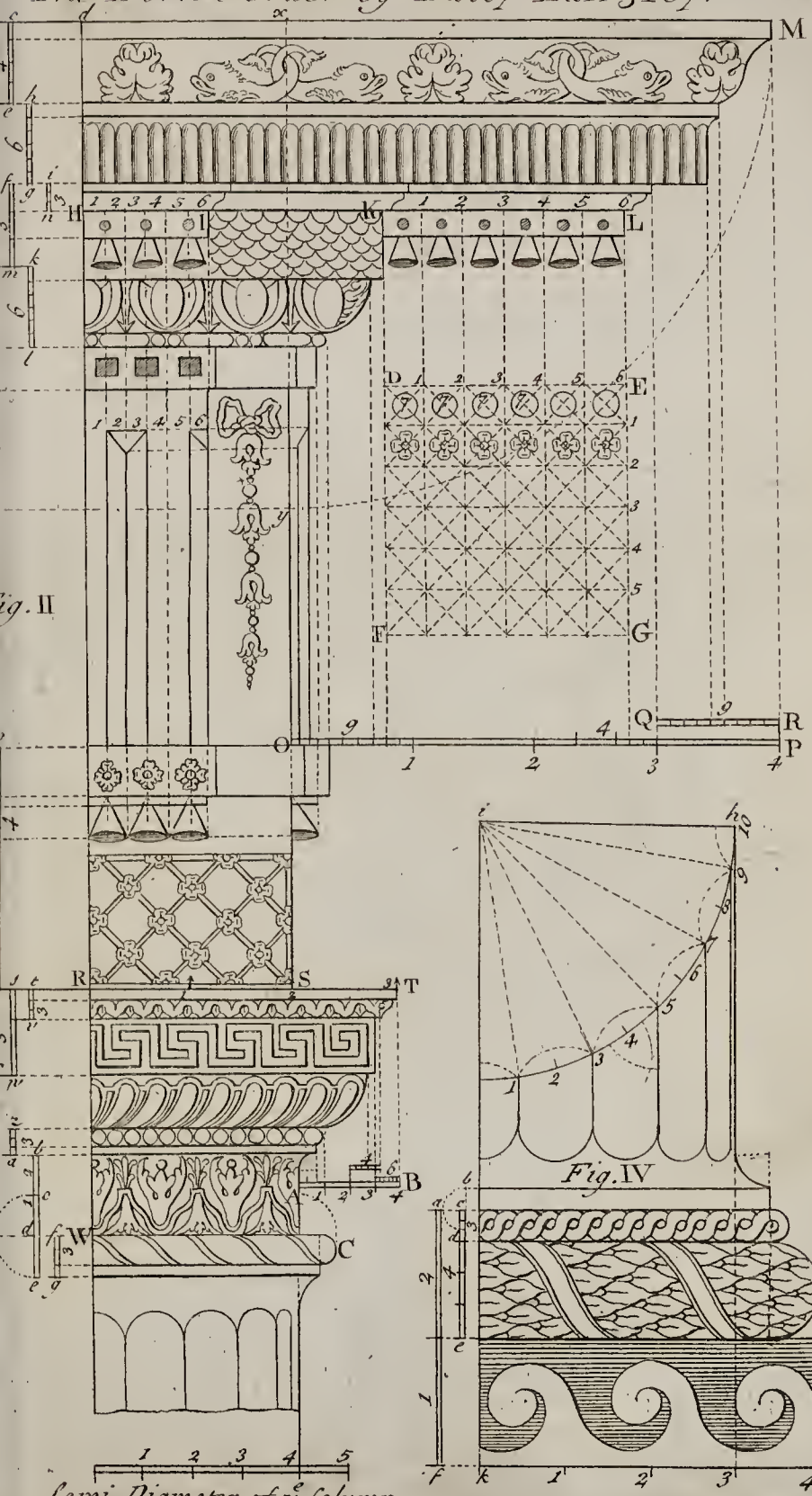
y Invent. Delin. & Sculp. 1736.

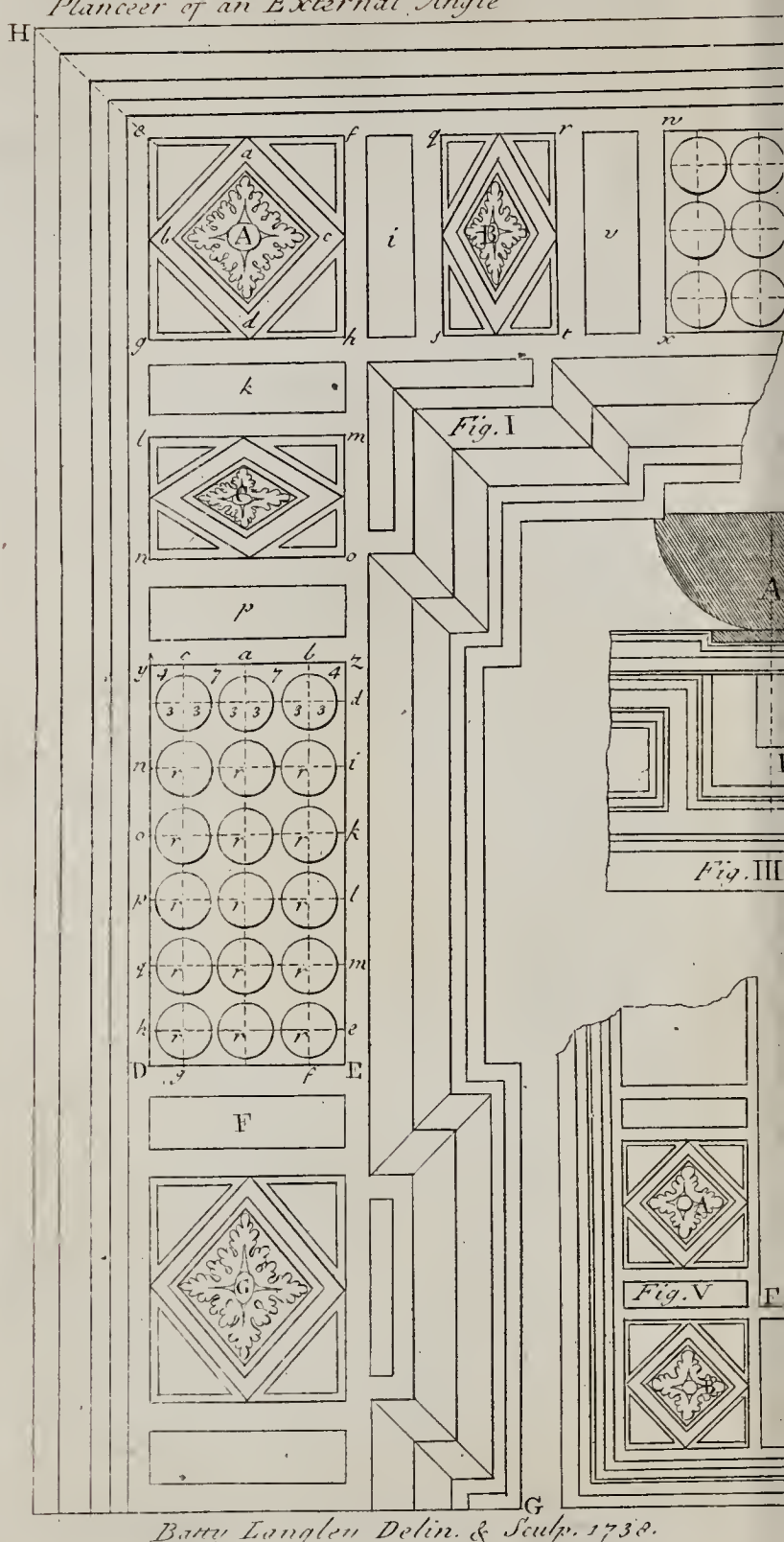
The Dorick Order by Andrea Palladio.



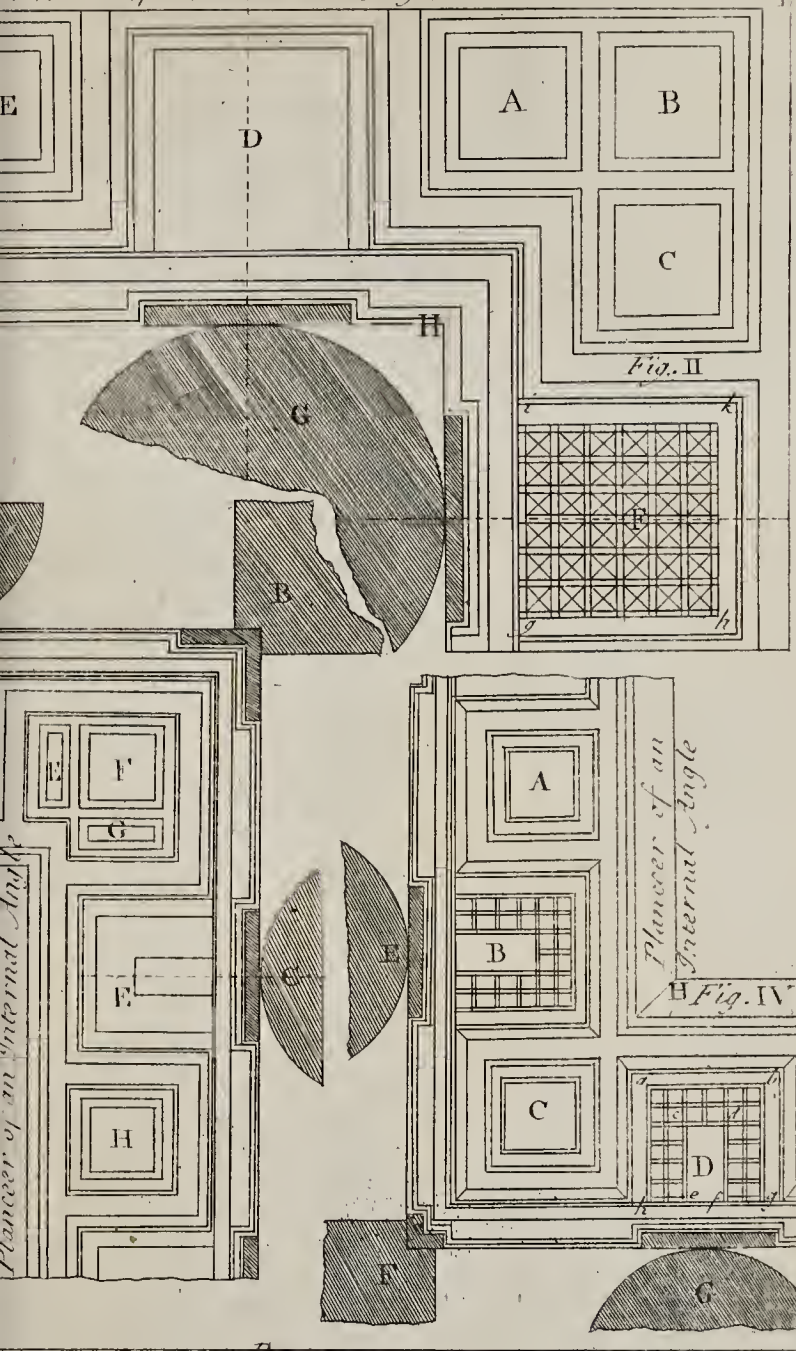
Batty Langley Invent. Delin. et Sculp. 1738.

The Dorick Order by Batty Langley. Plate XXIV.




Planceer of an External Angle
H
a
f
b
c
d
g
h
A
i
q
r
s
t
B
v
w
x
k
Fig. I
l
m
n
o
C
p
y
z
D
E
F
G
Fig. III
Fig. V
Batty Langley Delin. & Sculp. 1738.

Planceer of an External Angle



Planceer of an External Angle

Doric Frontisp

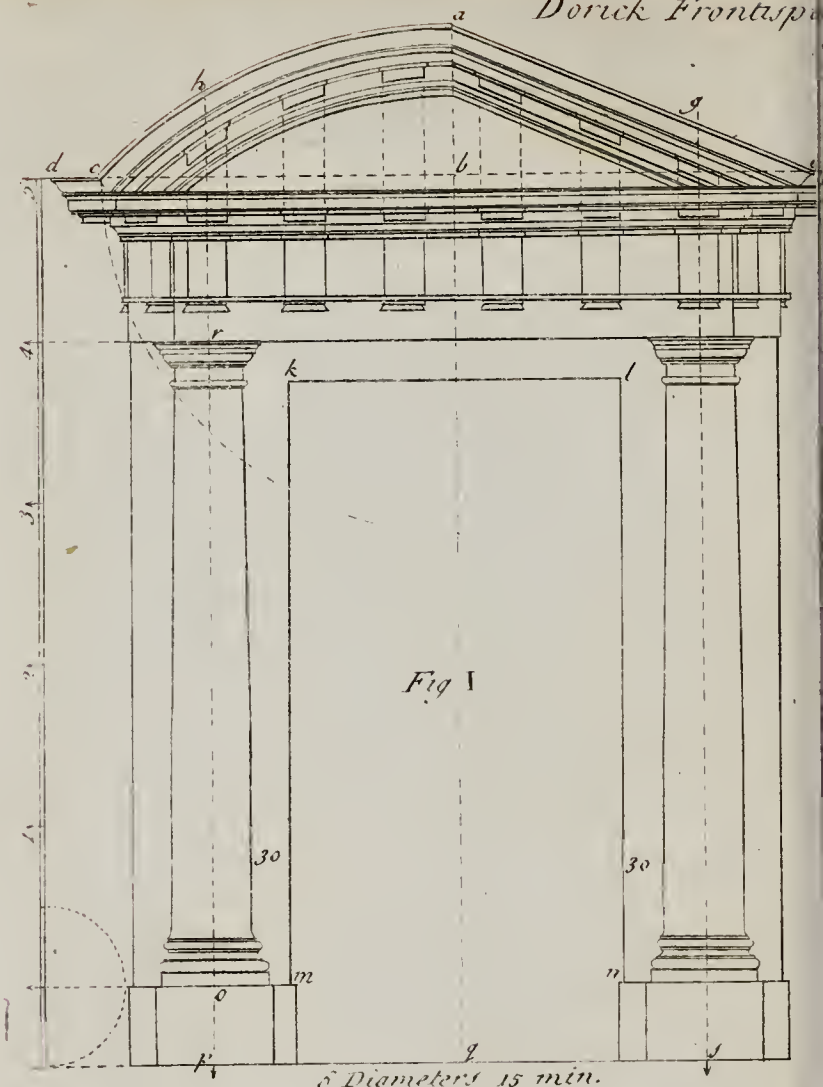
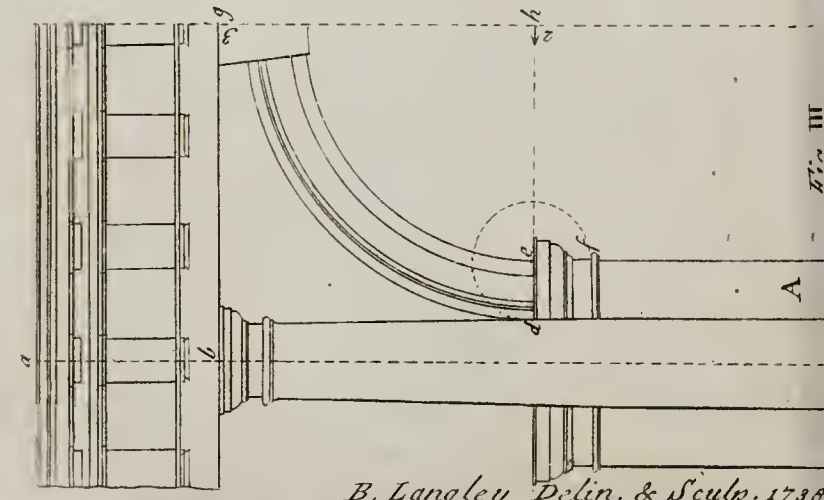


Fig I

6 Diameters 15 min.



B. Langley Delin. & Sculp. 1738

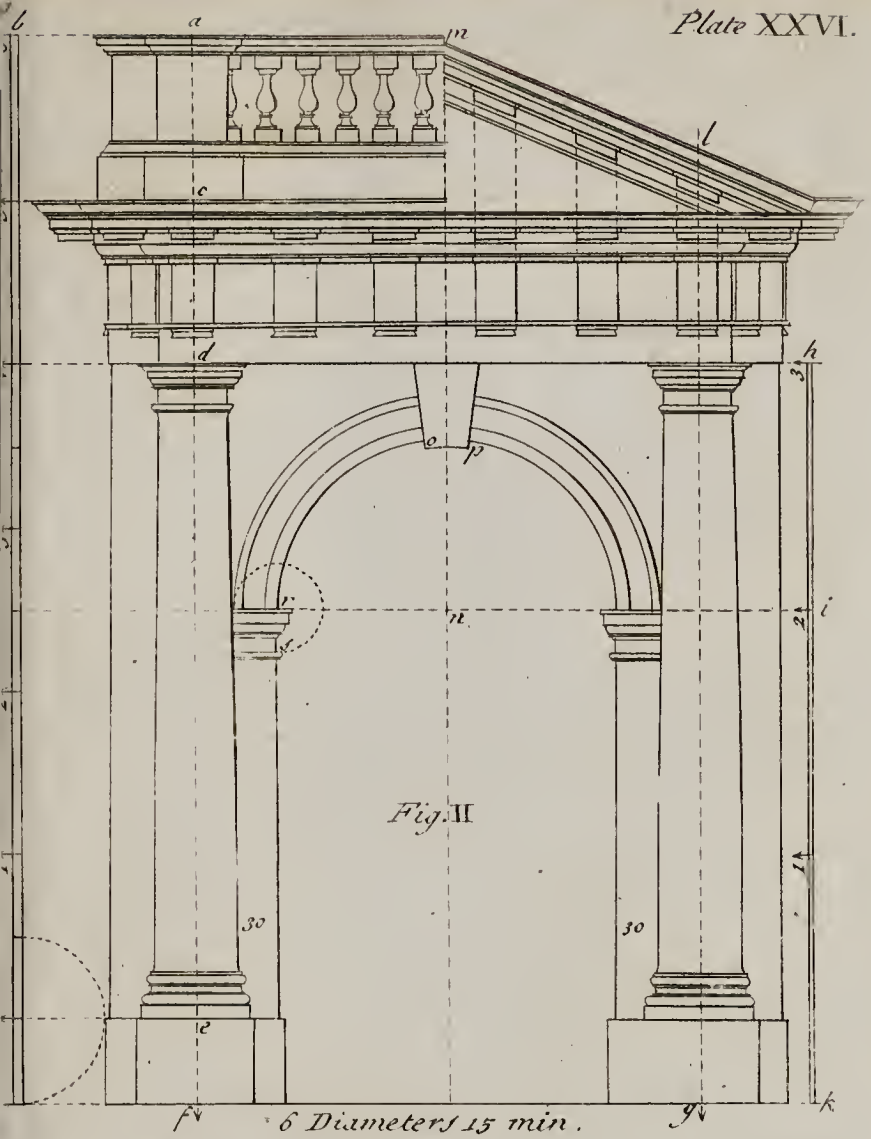
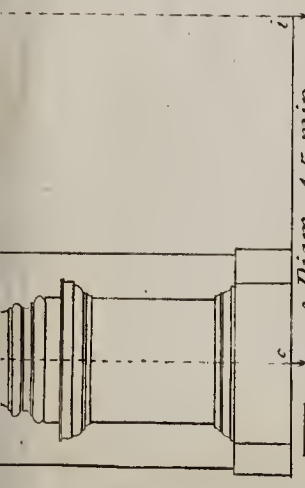
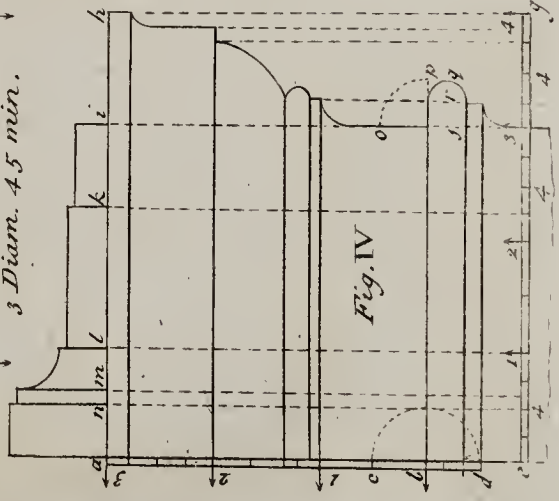
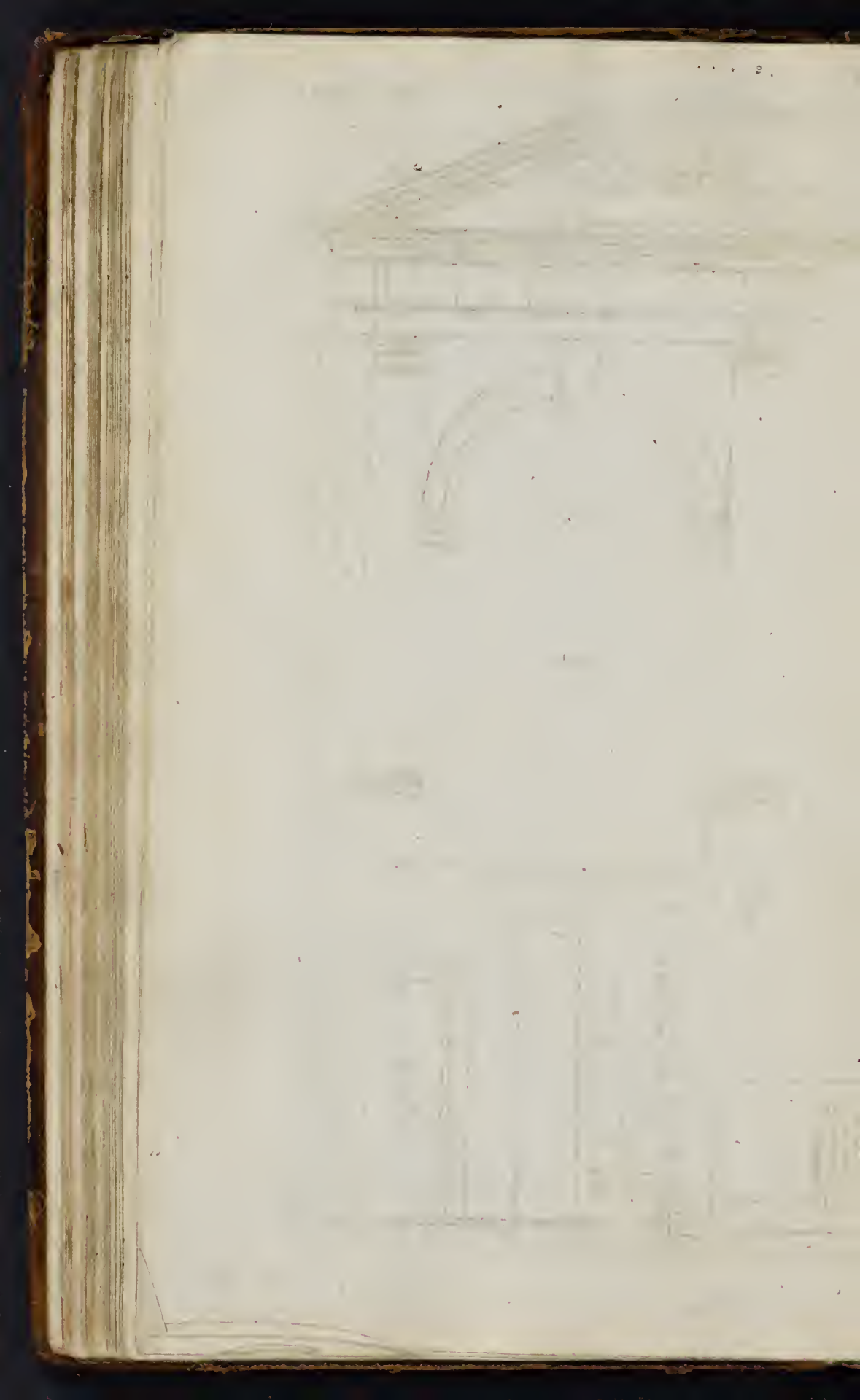


Fig. III

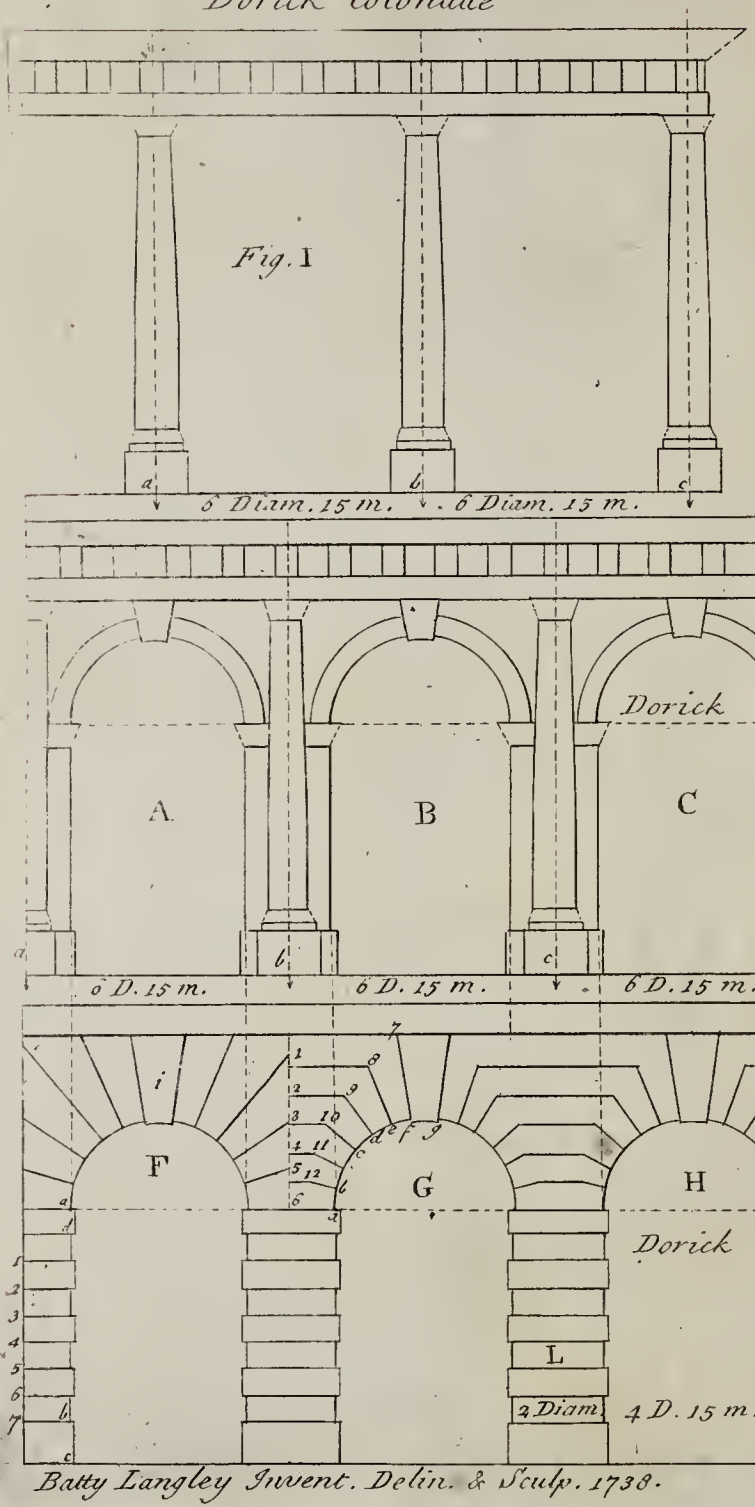
6 Diameters 15 min.







Dorick Colonade



Batty Langley Invent. Delin. & Sculp. 1738.

...k Portico

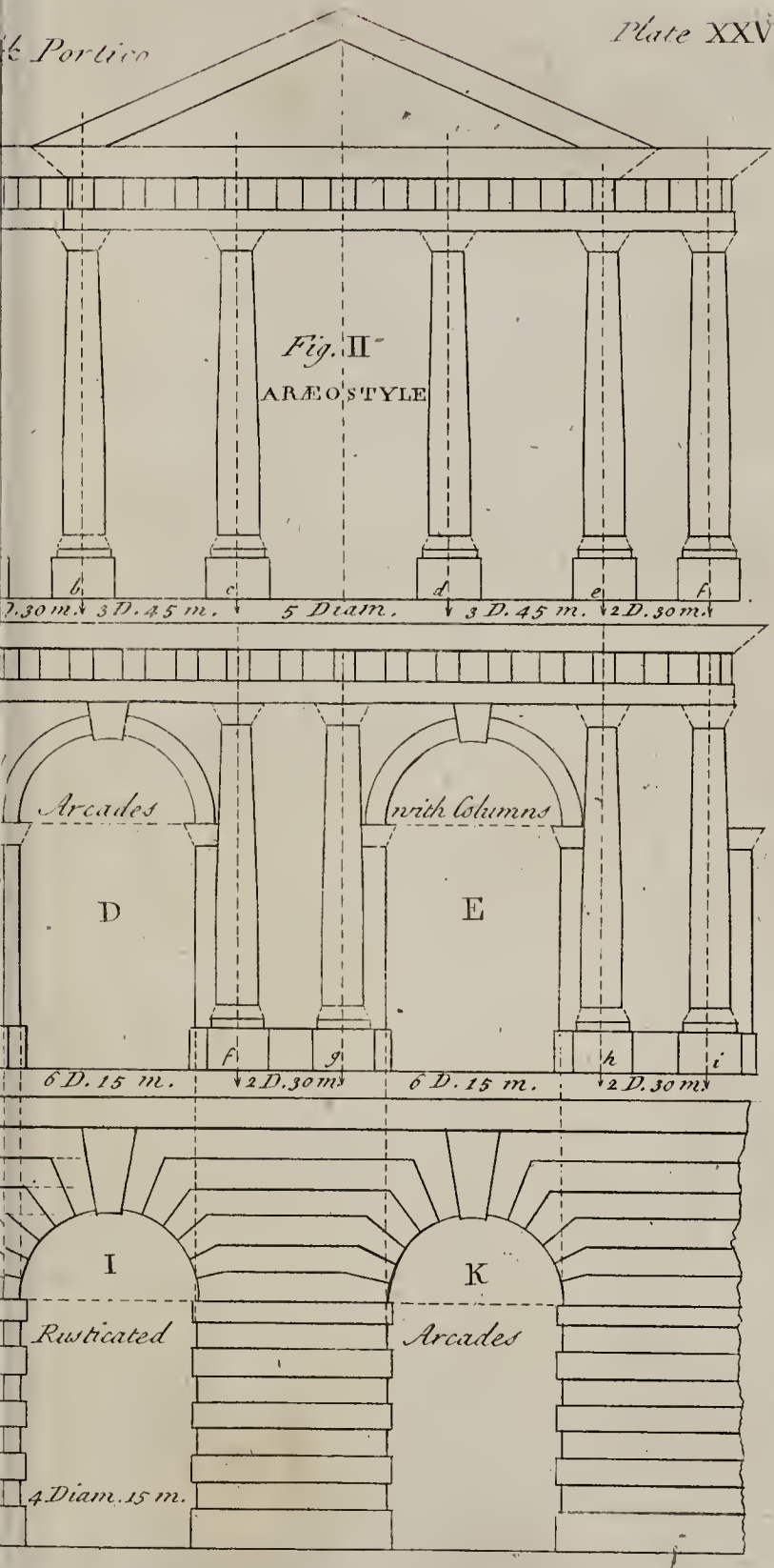
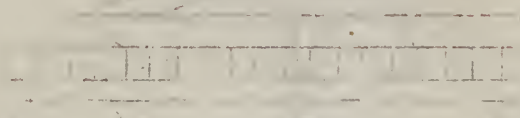


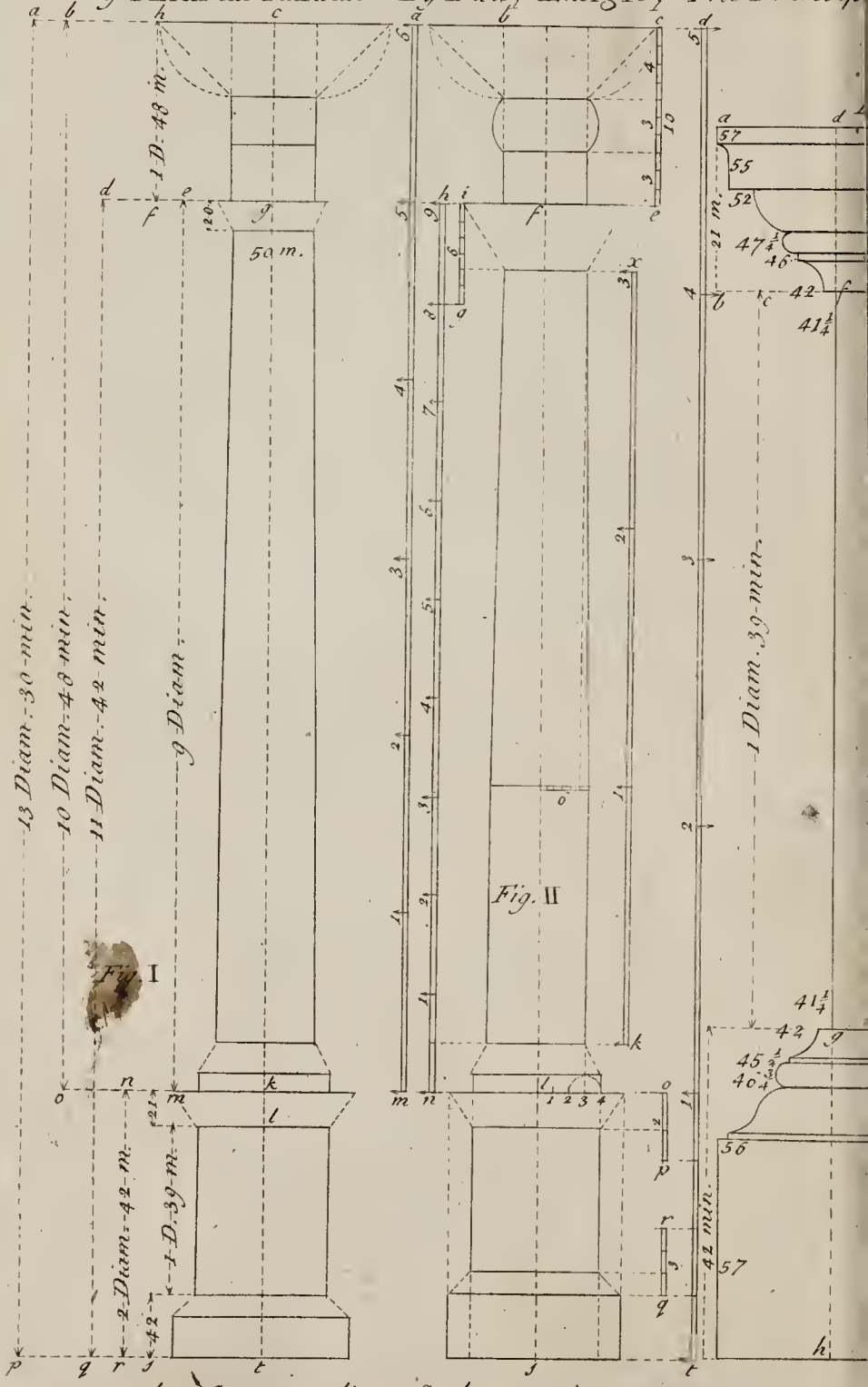
Fig. II.
ARÆOSTYLE
b
c
d
e
f
...30 m.
3 D. 45 m.
5 Diam.
3 D. 45 m.
2 D. 30 m.
Arcades
with Columns
D
E
f
g
h
i
6 D. 15 m.
2 D. 30 m.
6 D. 15 m.
2 D. 30 m.
I
K
Rusticated
Arcades
4 Diam. 15 m.



By Andrea Palladio

By Batty Langley

The Princip



Batty Langley Invent. Delin. & Sculp. 1738.

The Ionick Pedestal

Andrea Palladio

By Batty Langley

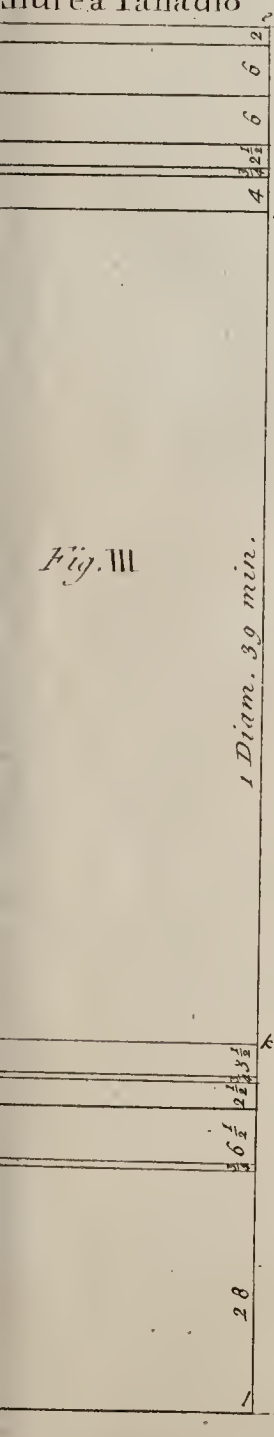


Fig. III

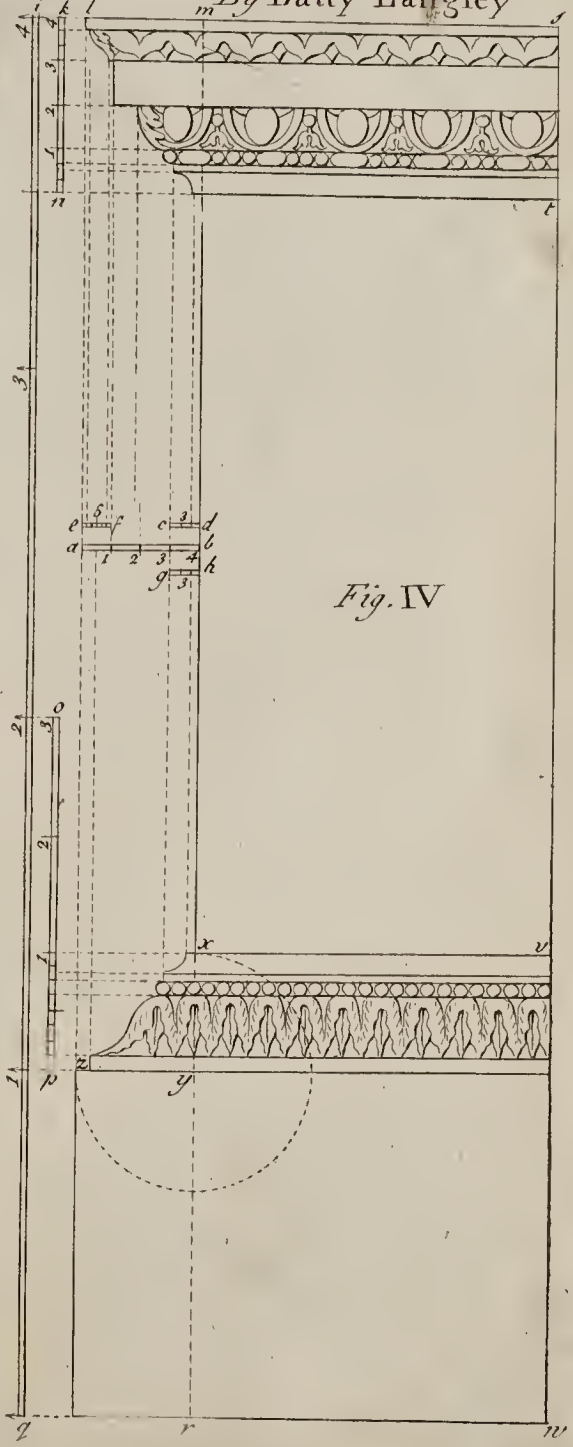
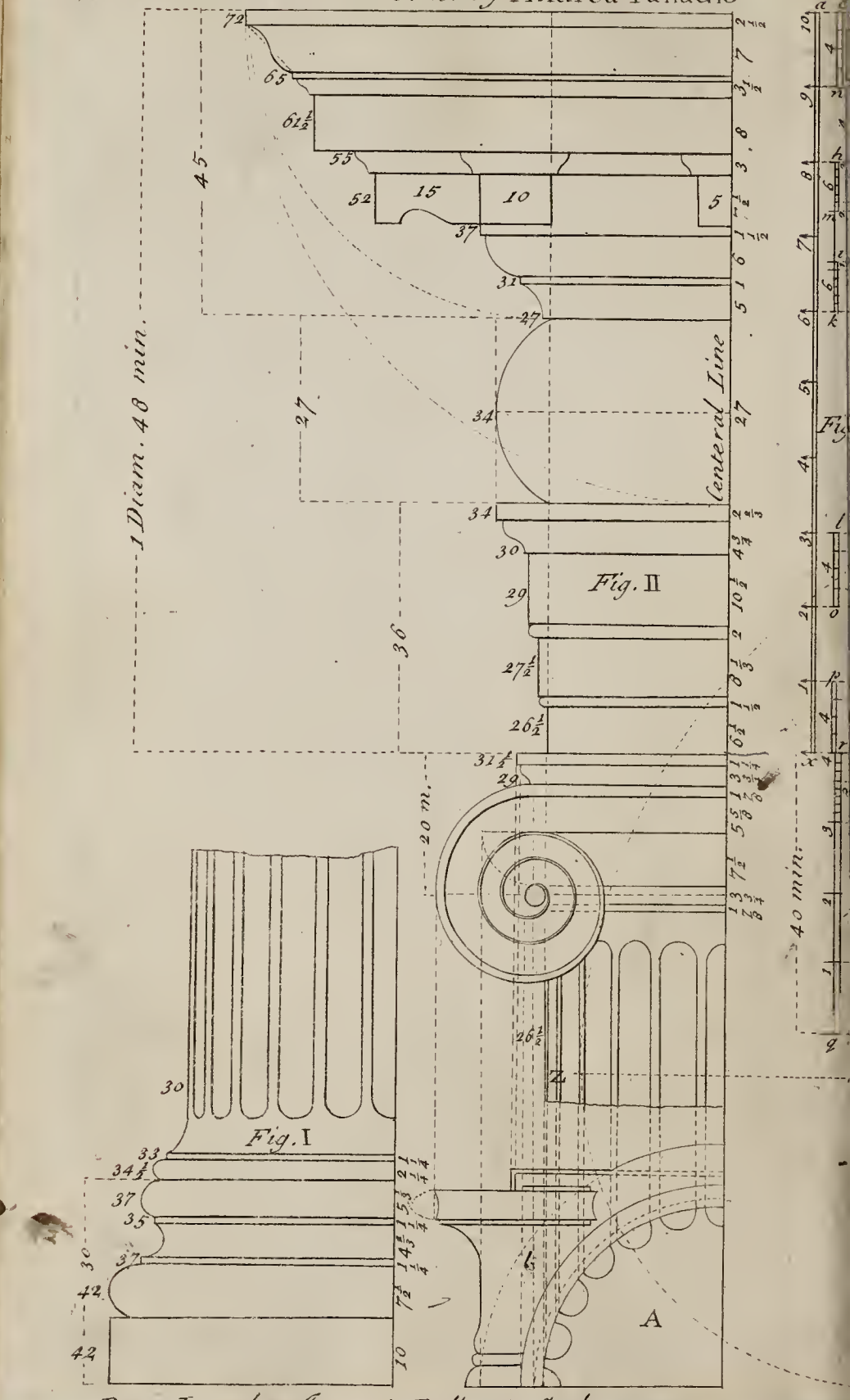
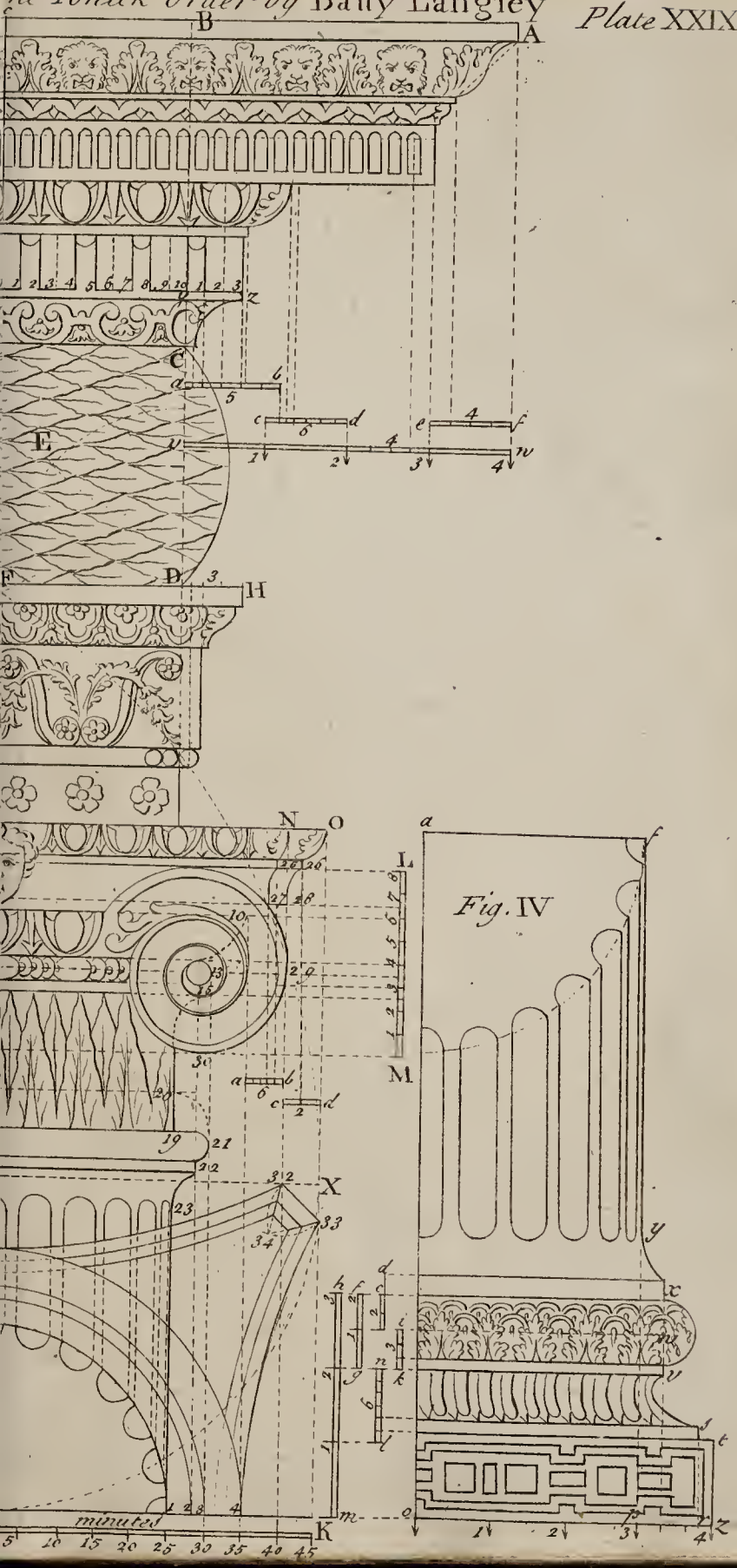


Fig. IV

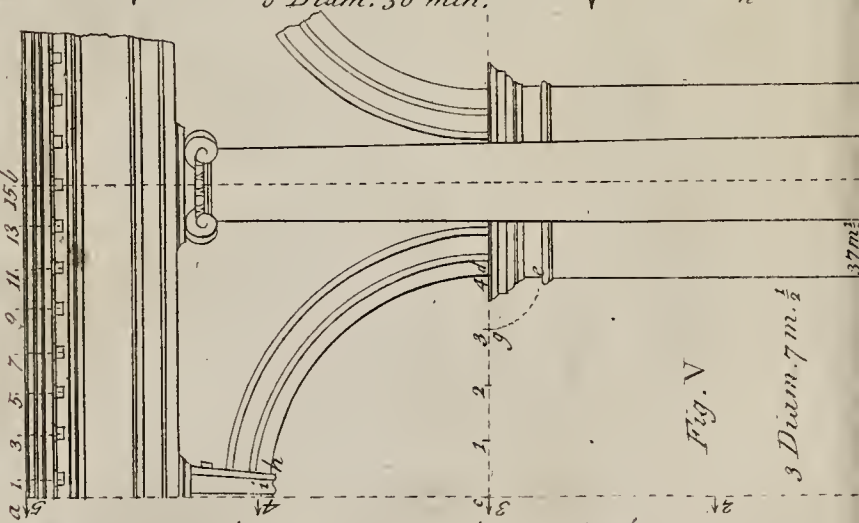
The Ionick Order by Andrea Palladio



Batty Langley Invent. Delin. & Sculp. 1738.


B
A
z
C
E
F
D
H
N
O
L
M
X
minutes
K
Fig. IV
a
f
y
x
v
t
z

Ionick Frontispieces



Batty Langley Invent. Delin. & Sculp. 1738.

Plate XXX.

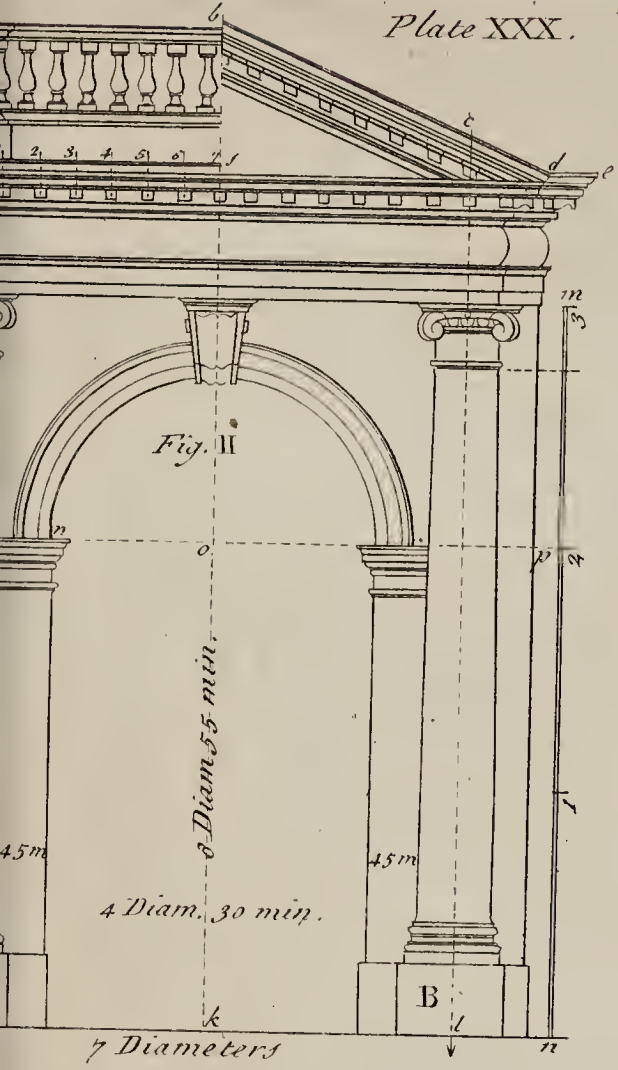


Fig. II
8 Diam. 55 min.
4 Diam. 30 min.
45m
45m
7 Diameters
B

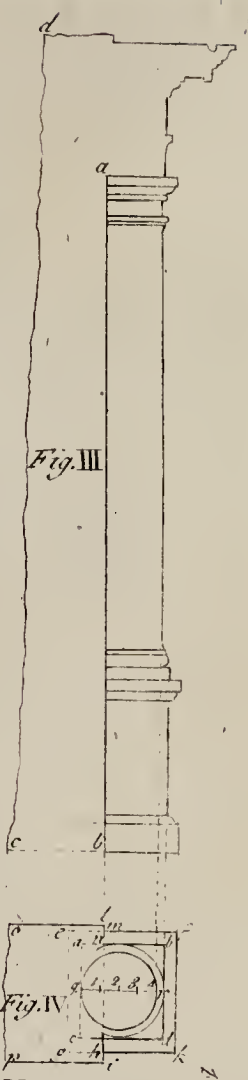
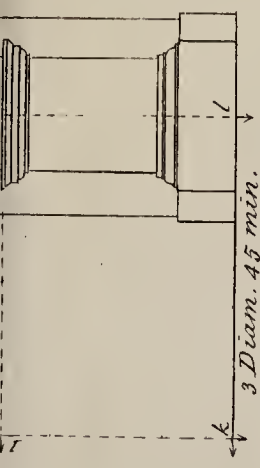


Fig. III

Fig. IV


3 Diam. 45 min.

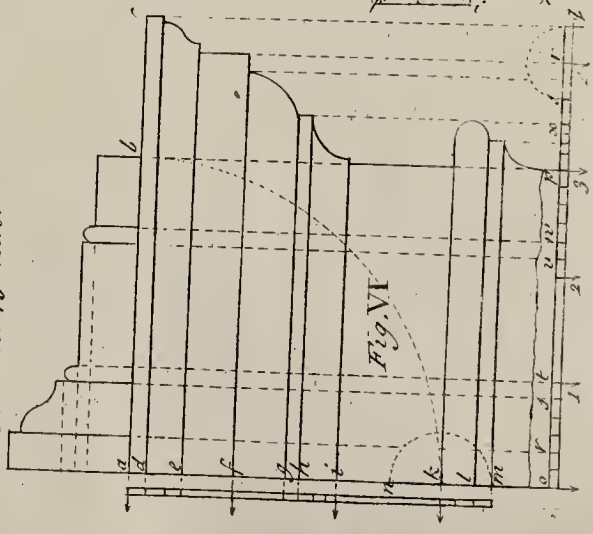
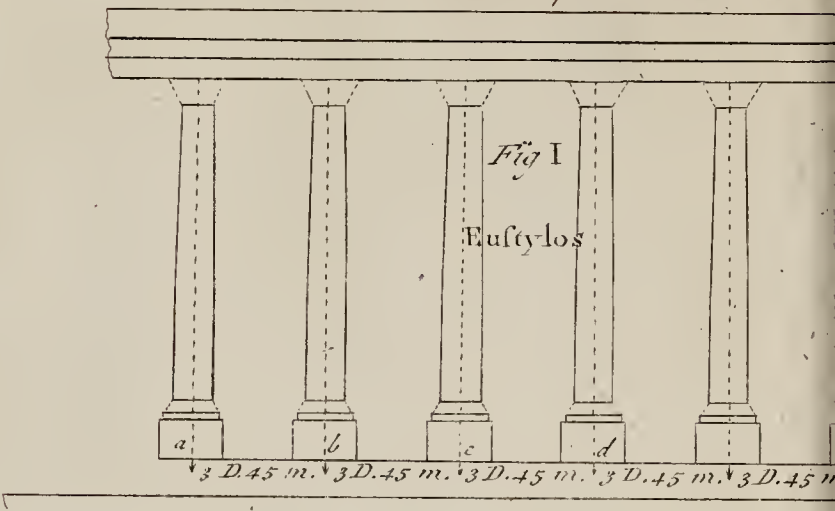
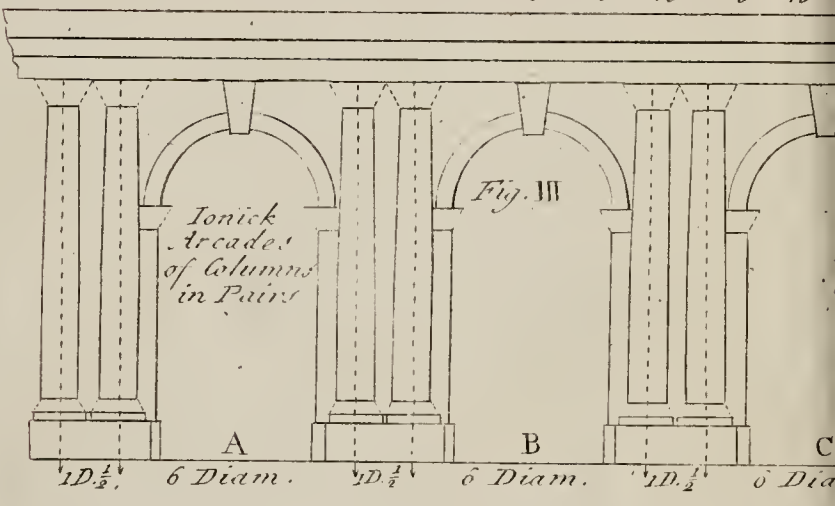


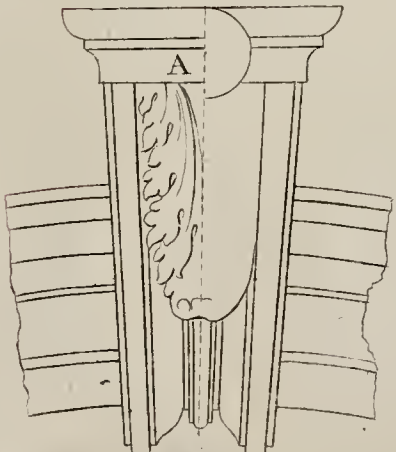
Fig. VI

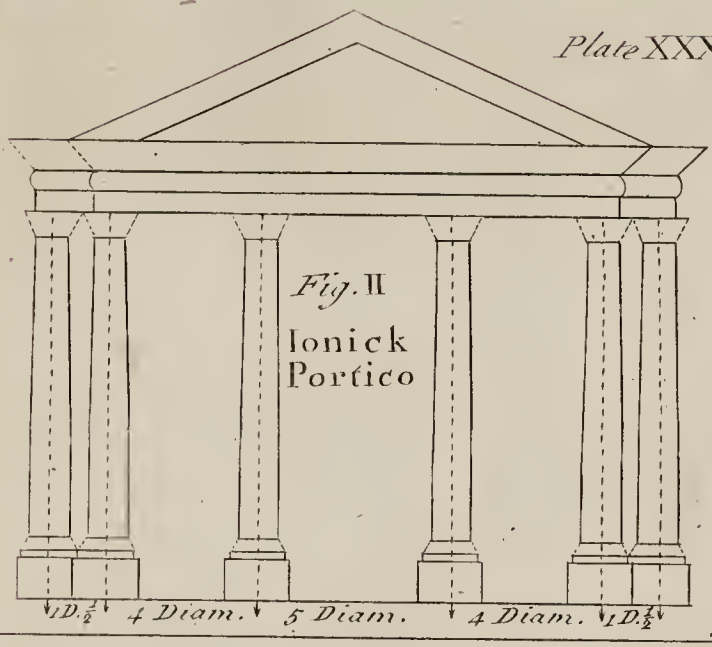
Ionick Intercolumnations for Colonades

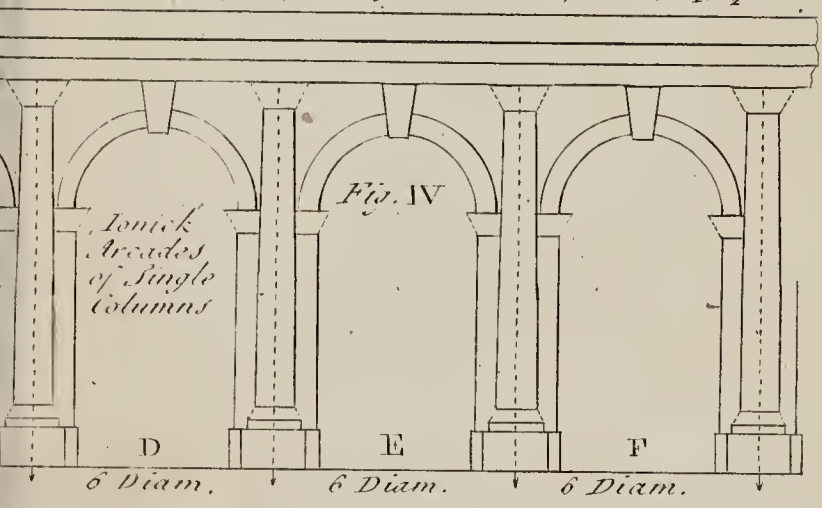


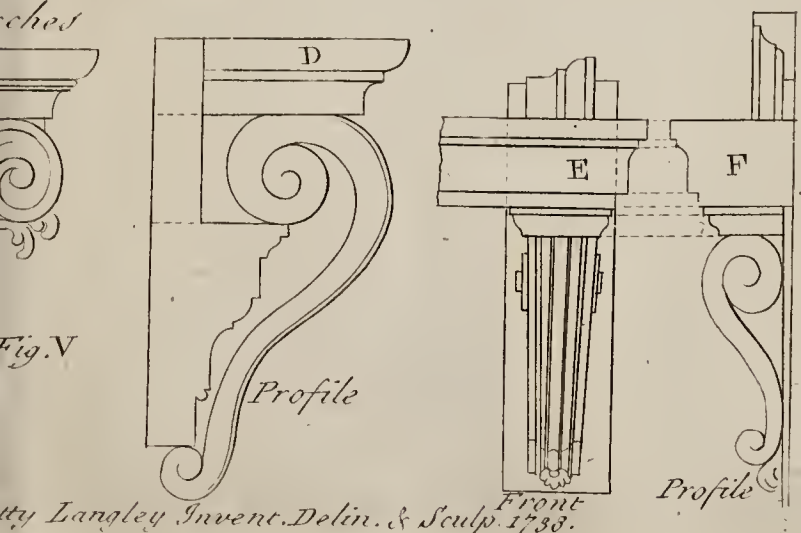


Conſole's *or Key Stones o*



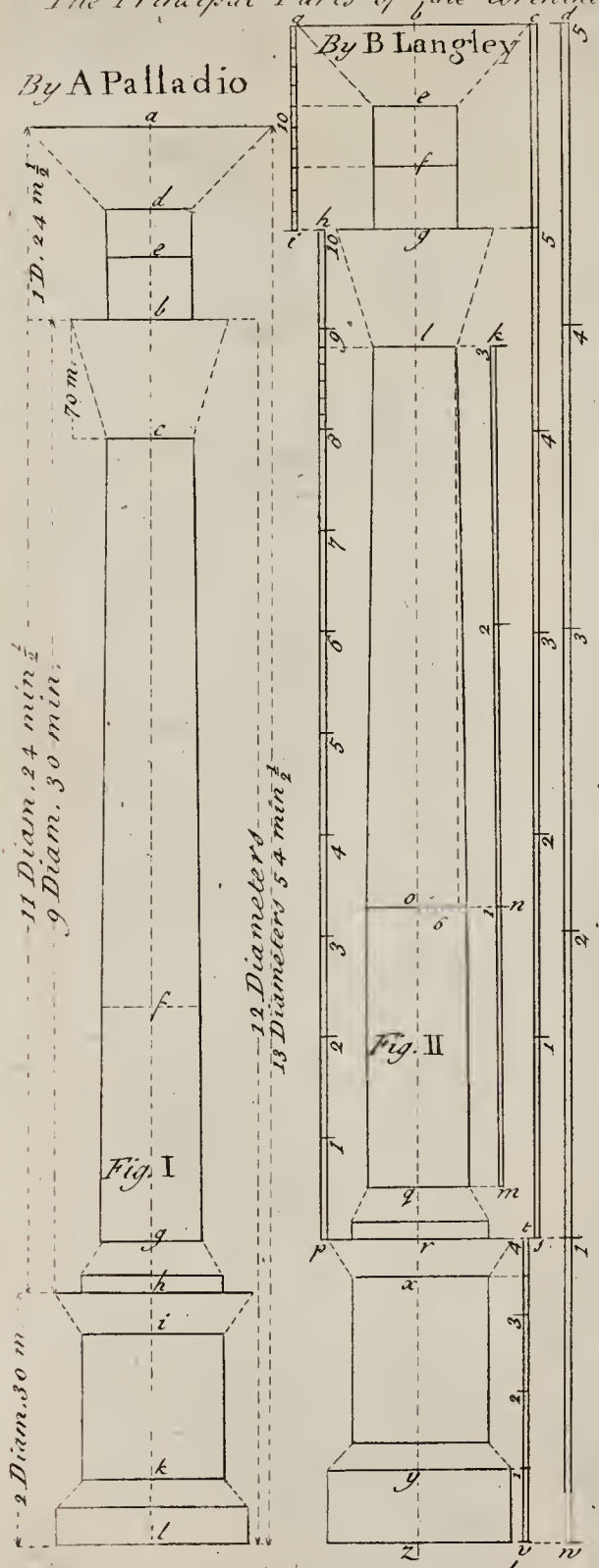




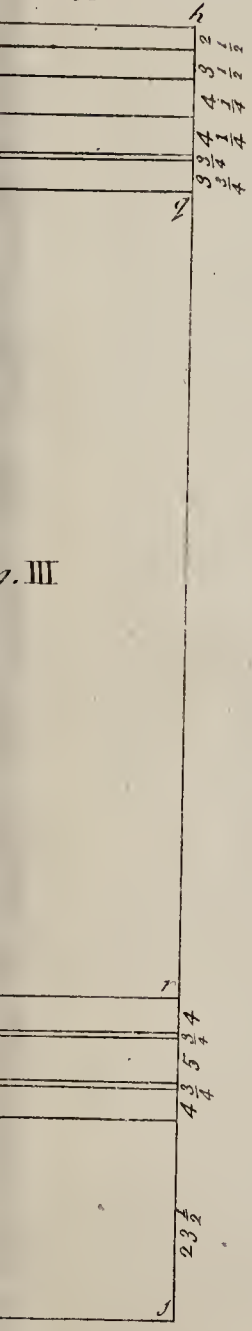


Batty Langley Invent. Delin. & Sculp. 1738.

The Principal Parts of the Corinthian Order.



Pedestal by
Iladio



g. III.

Plate XXXII.

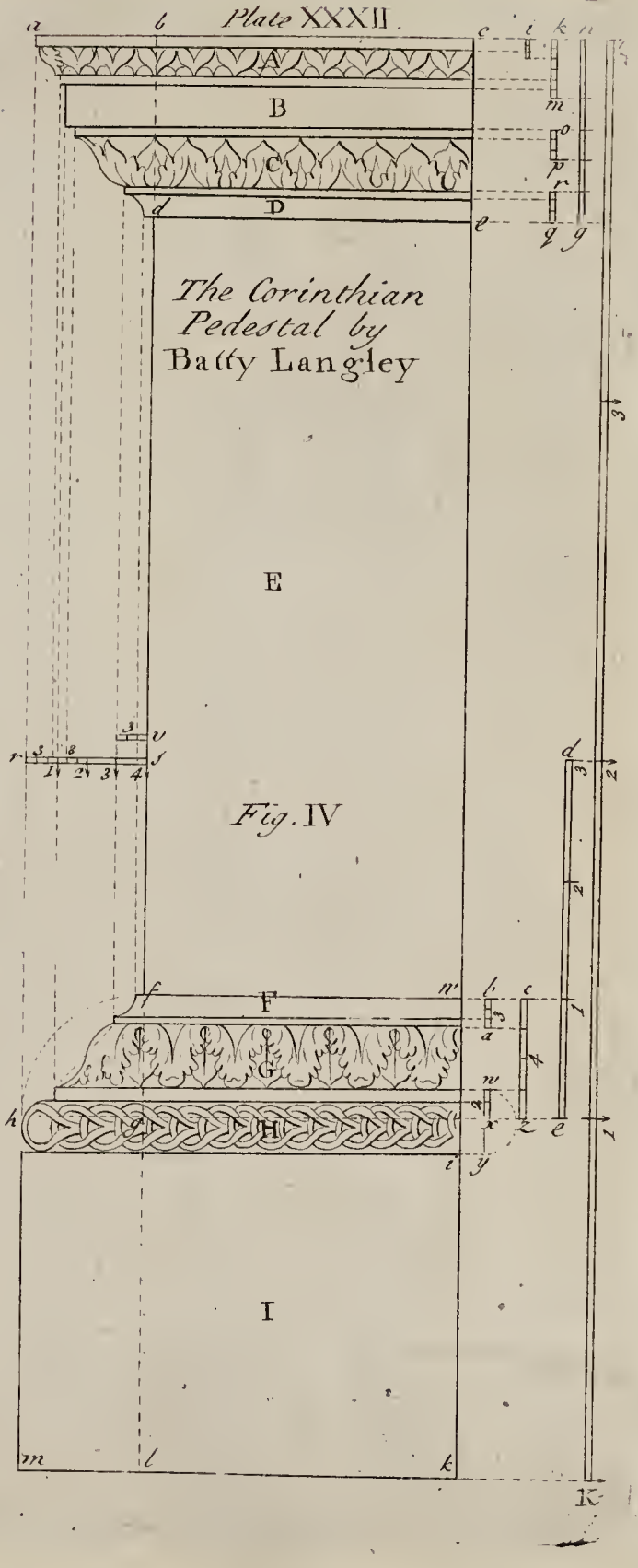
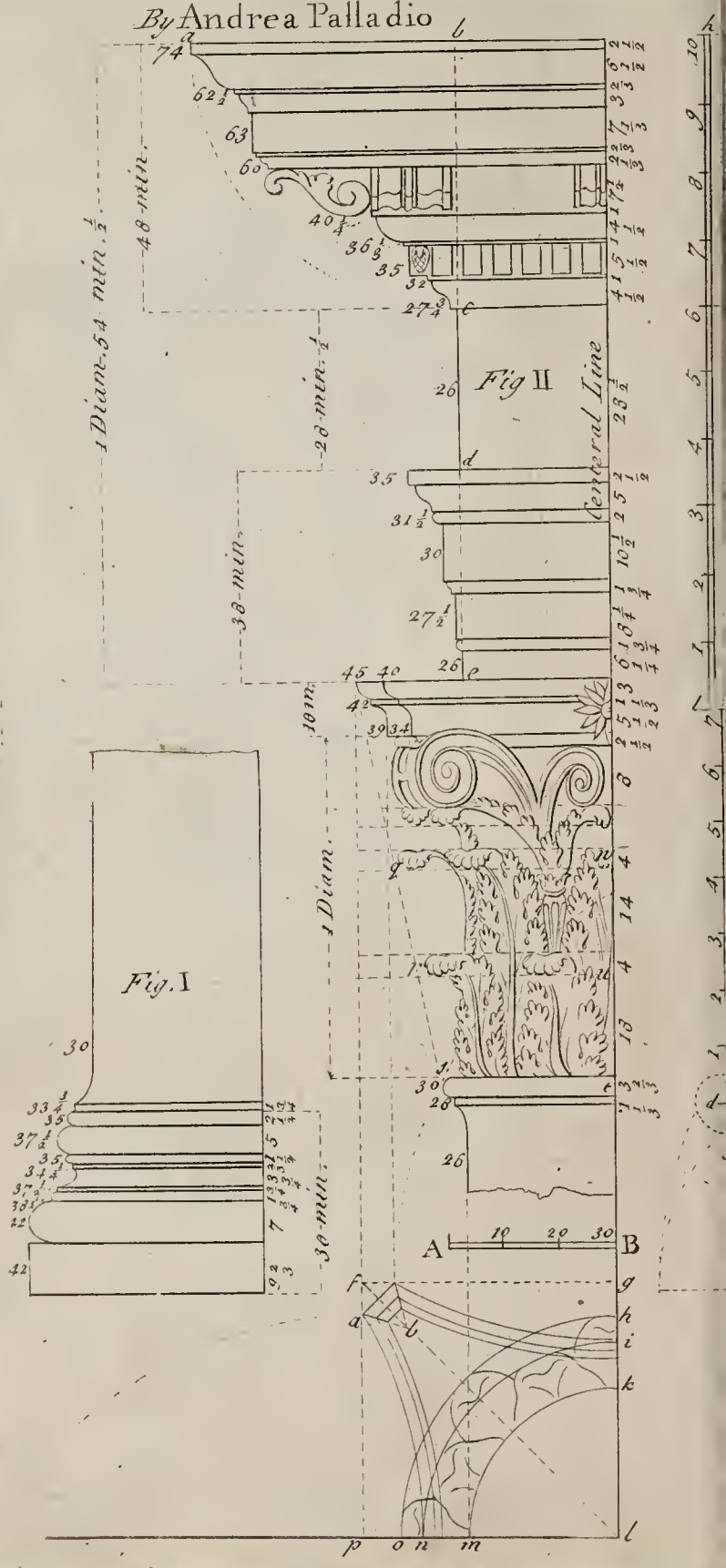


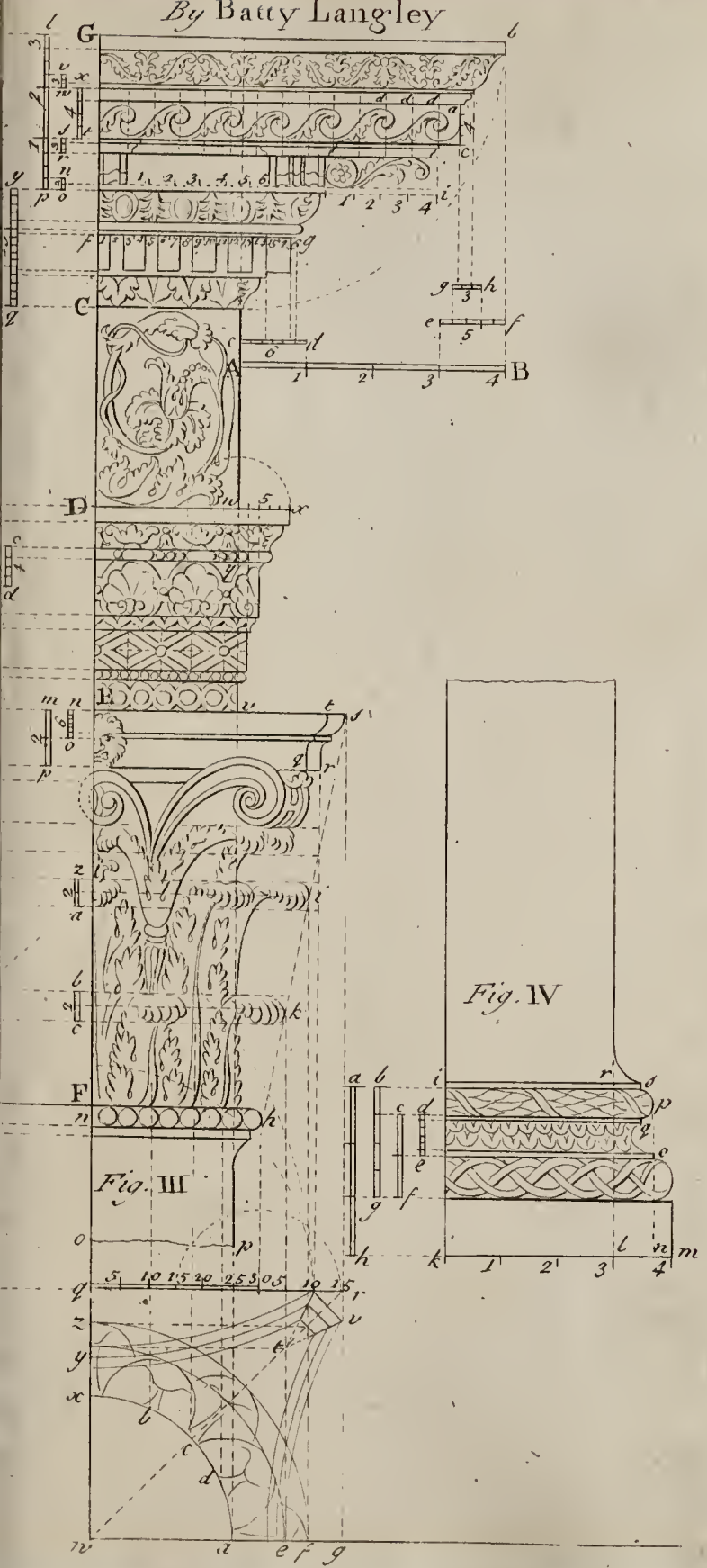
Fig. IV

The Corinthian

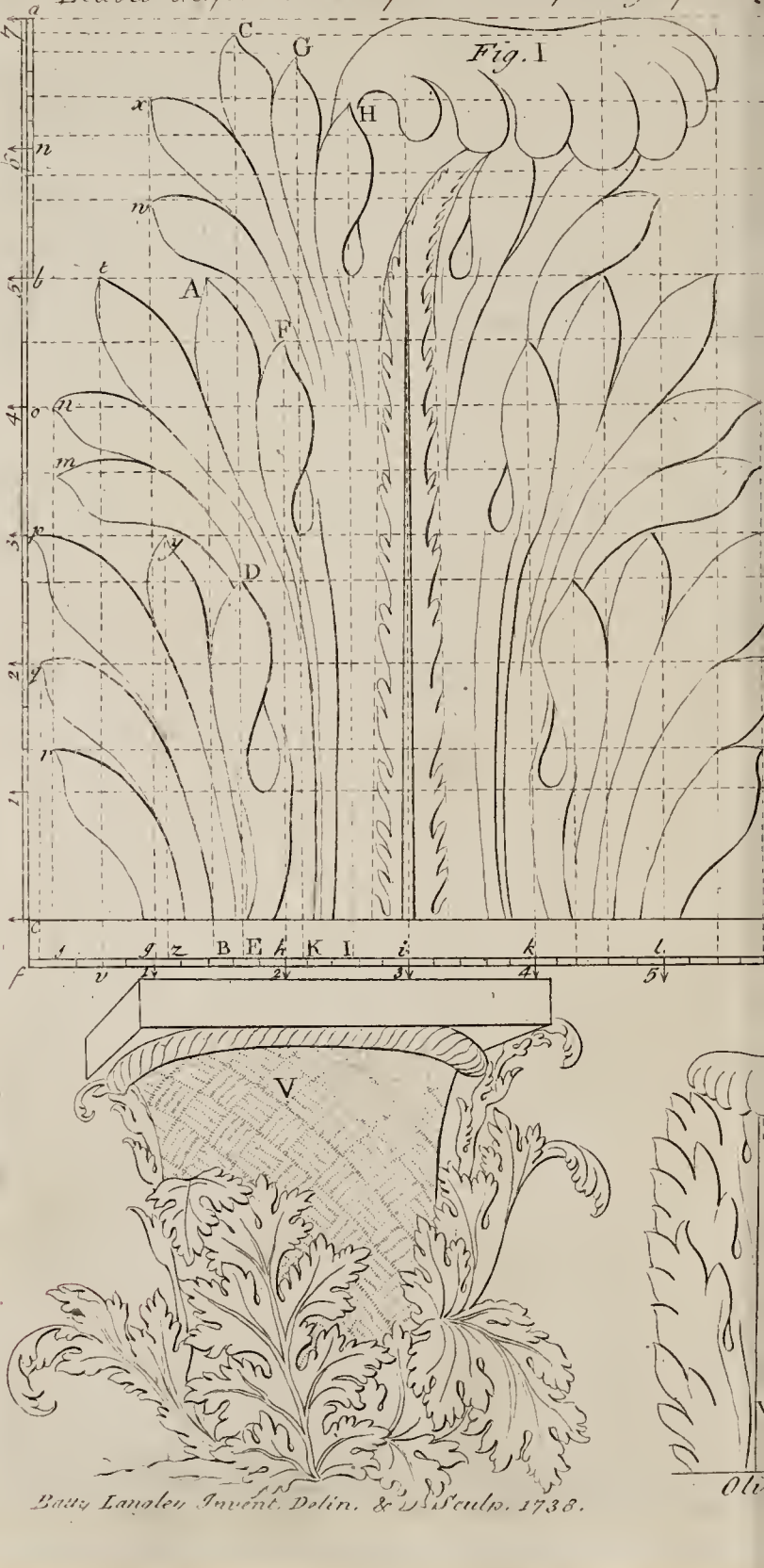
By Andrea Palladio



By Batty Langley



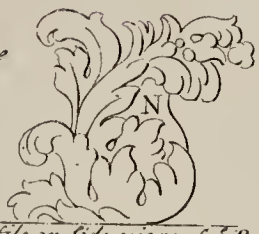
Leaves &c. for Practice for the composing of Cor



Batty Langley Invent. Delin. & Sculp. 1738.

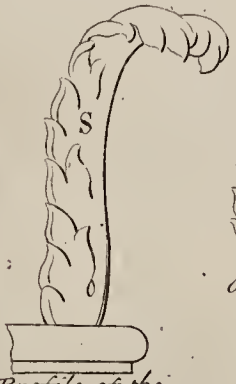
Ol

...rent view of the Rose
...f Composite Abacus



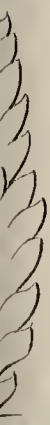
Profile or Side view of ...f Rose

...ct view of ...f Acanthus



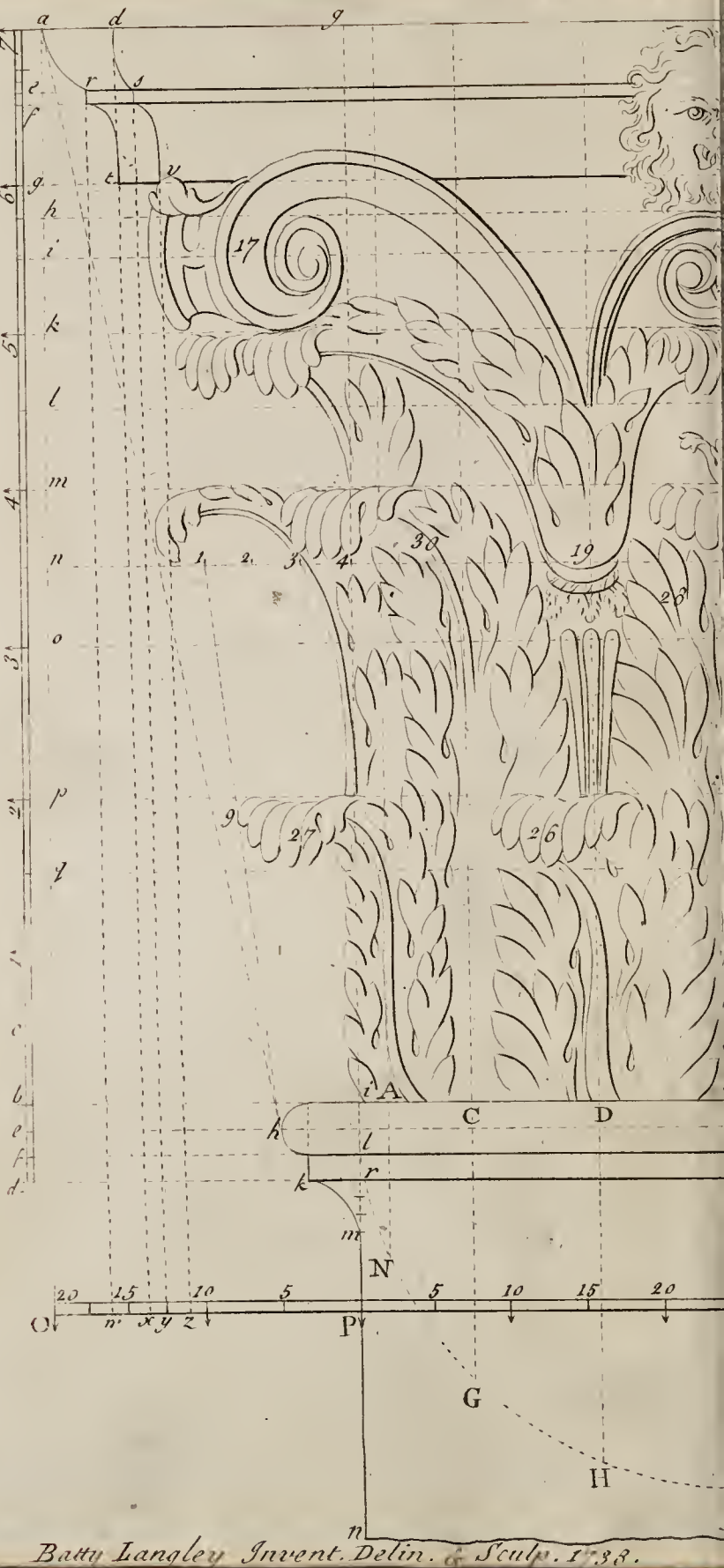
Profile of the Acanthus

Oblique view of the Acanthus



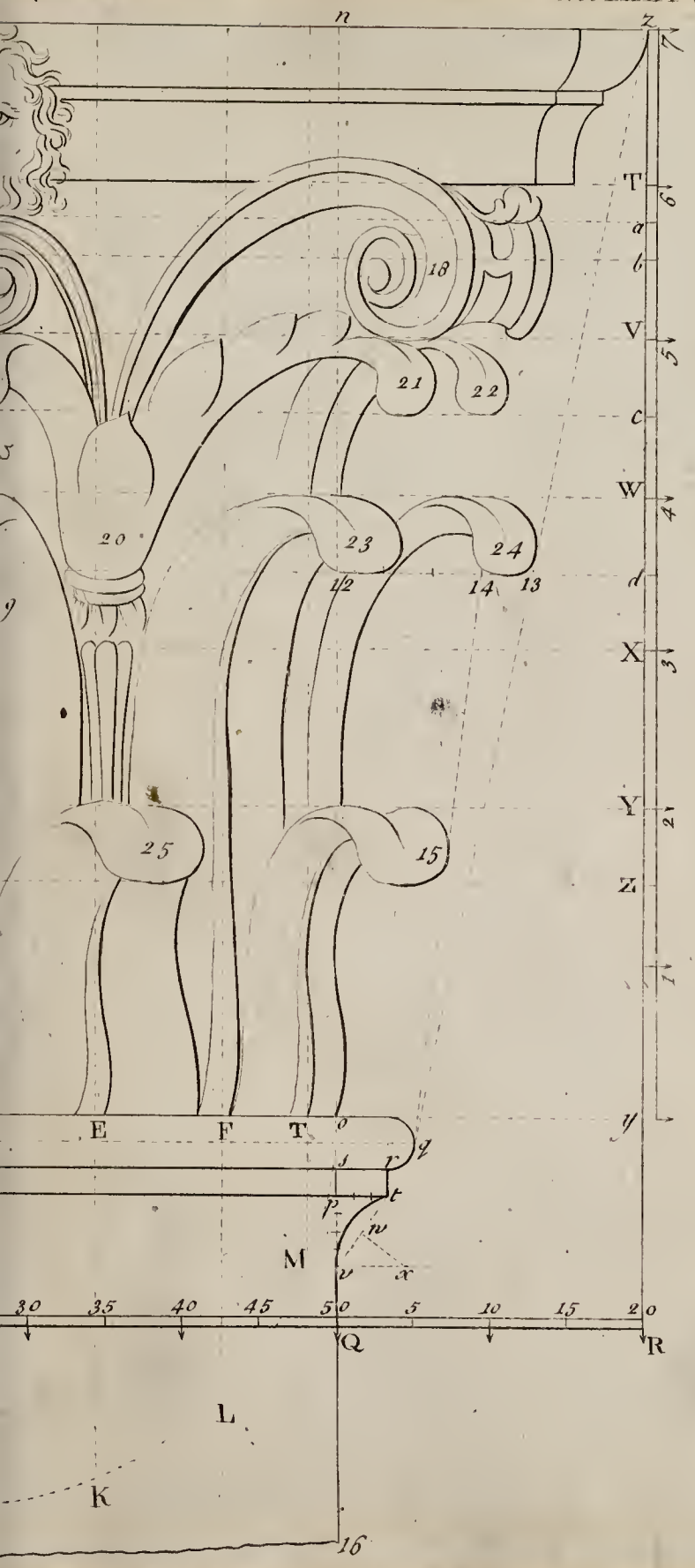
Laurel

Parsley



Batty Langley Invent. Delin. & Sculp. 1738.

Plate XXXV


n
z
T
a
b
V
c
W
d
X
Y
Z
y
6
5
4
3
2
1
18
21
22
20
23
24
12
14
13
25
15
E
F
T
o
q
r
t
p
s
M
v
x
30
35
40
45
50
5
10
15
20
Q
R
L
K
16

Corinthian Fron

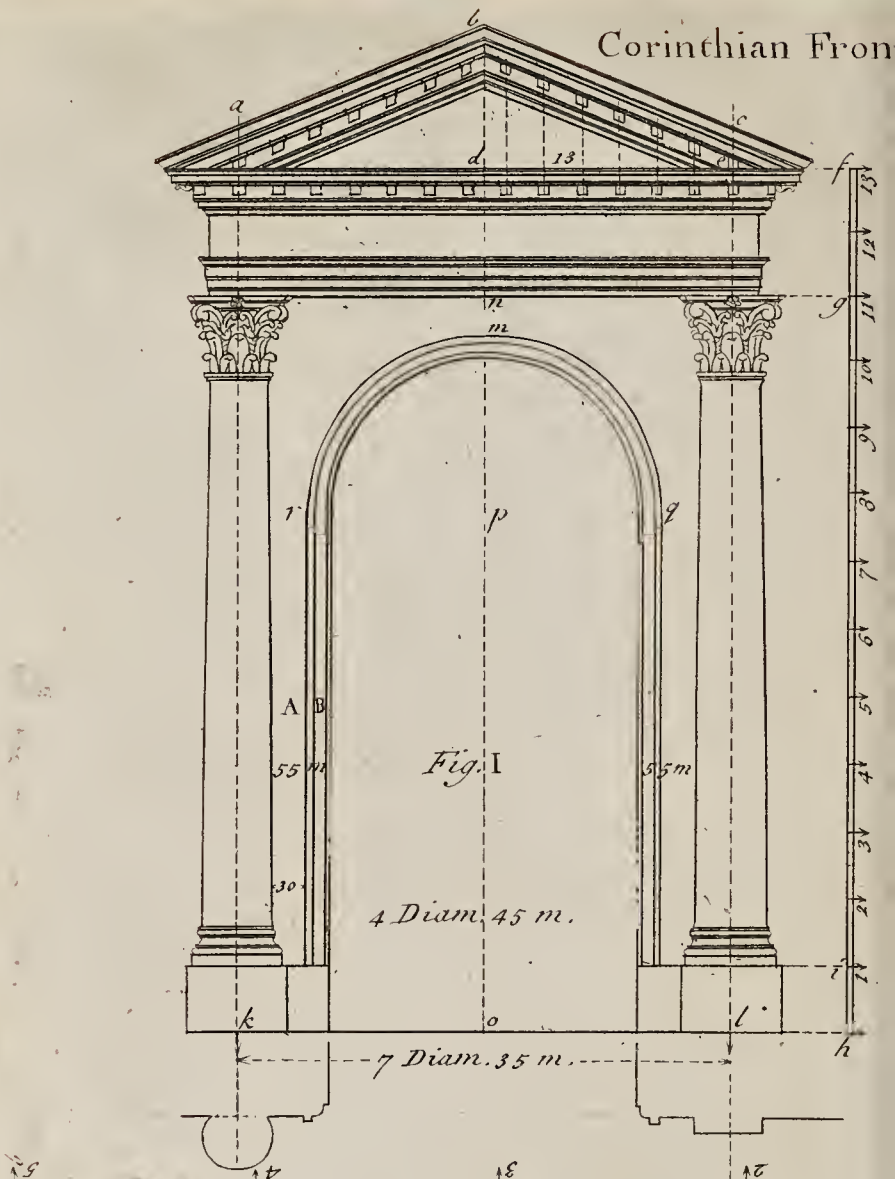


Fig. I

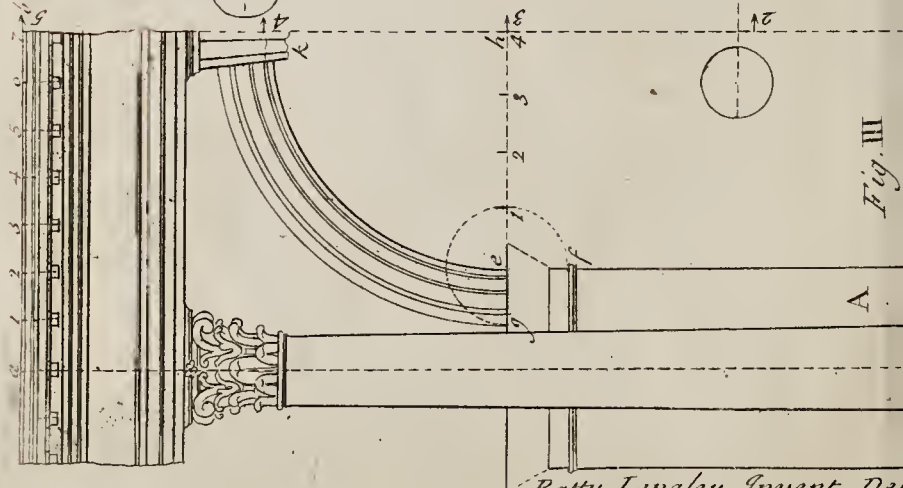
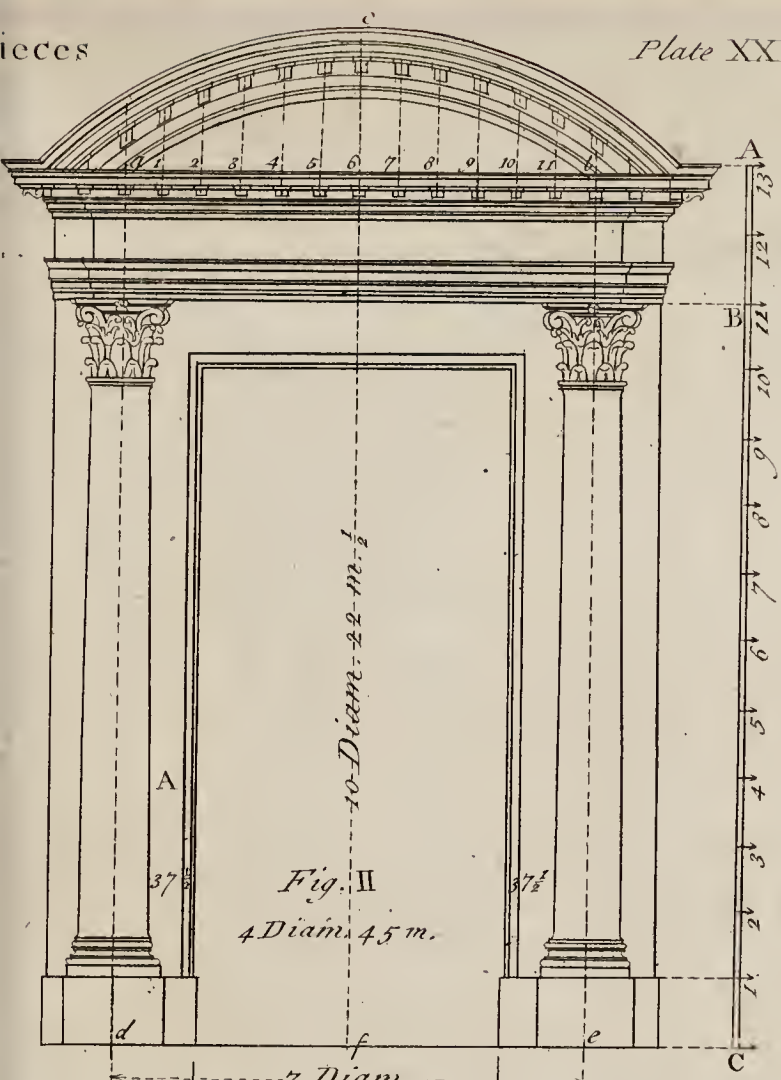
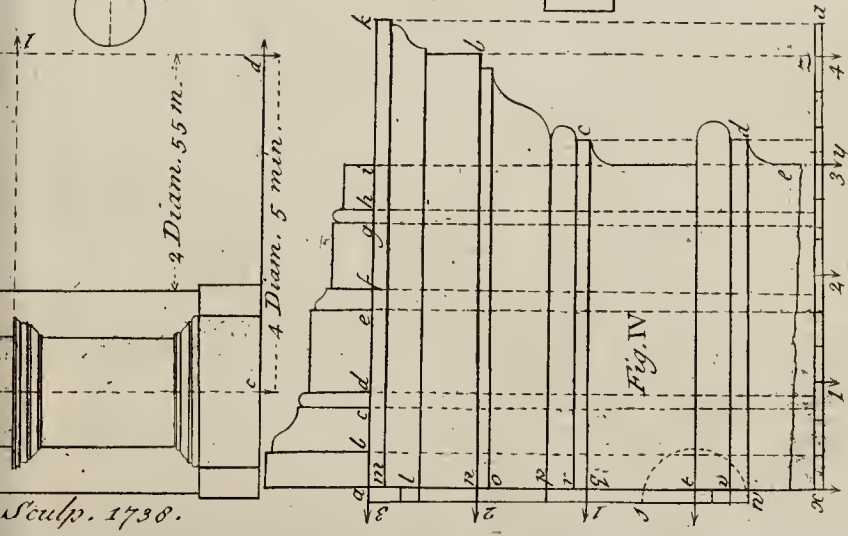


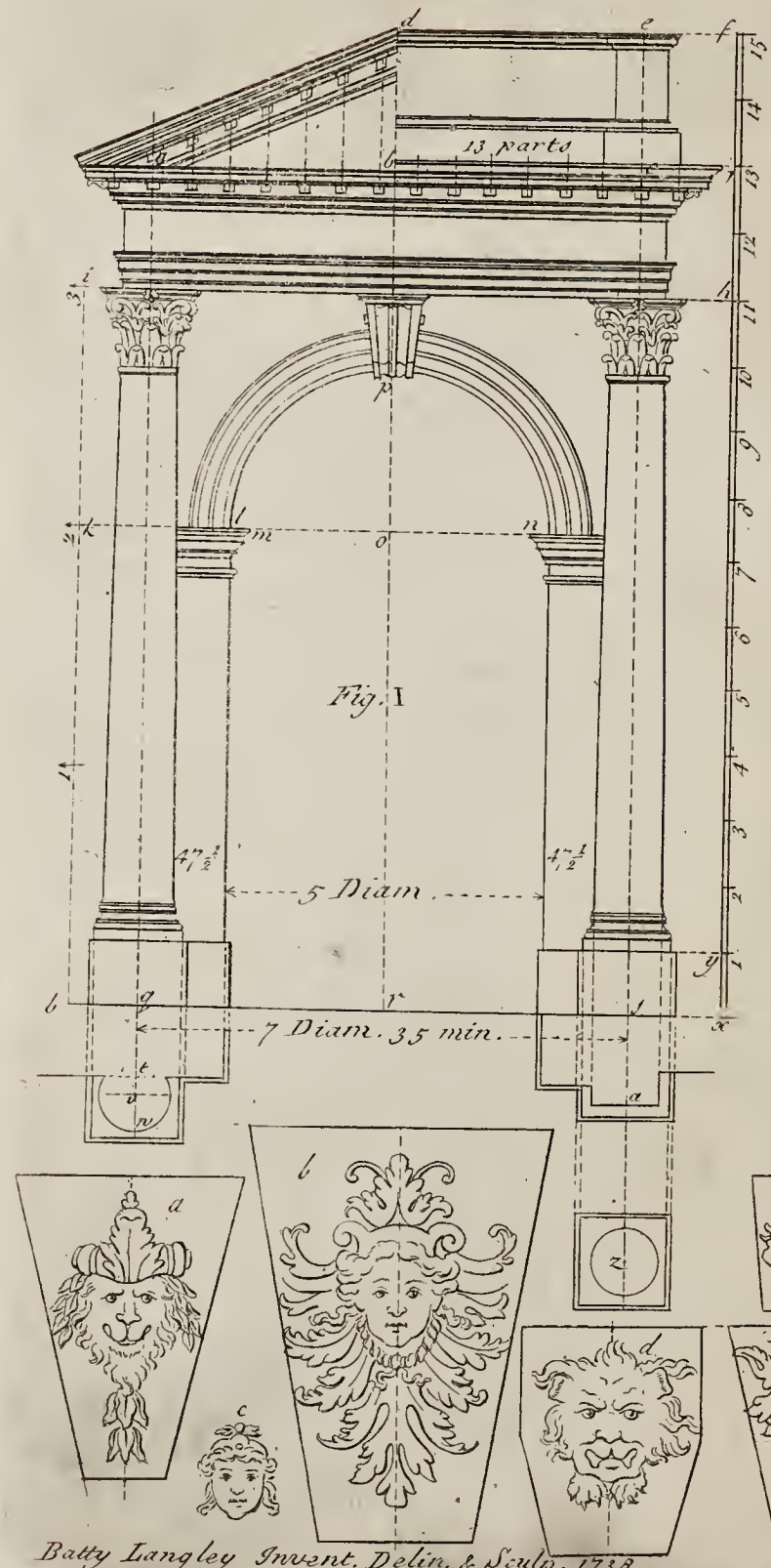
Fig. III

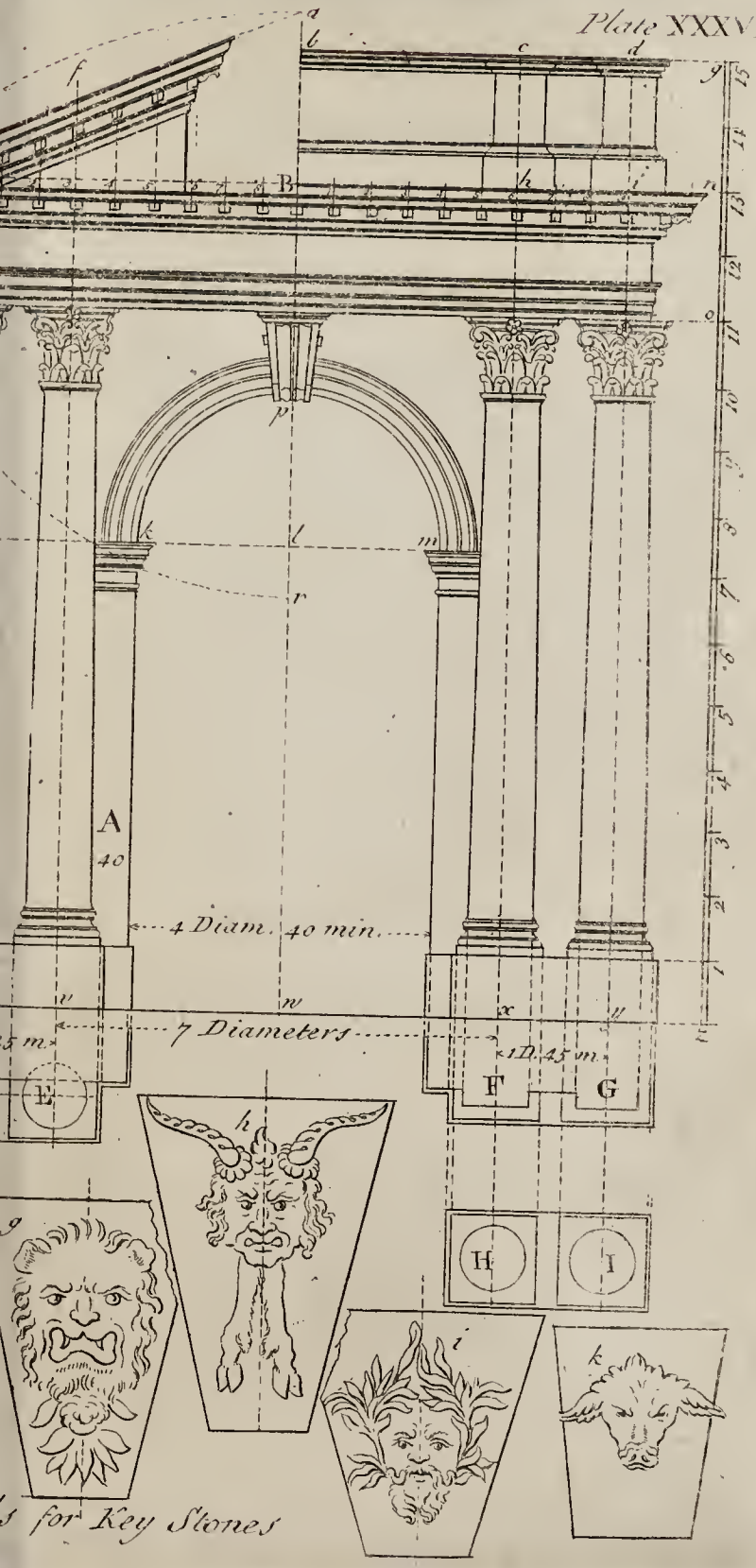
Batty Langley Invent. Del


10 Diam. 22 m. ½
A
B
C
37 ½
37 ½
Fig. II
4 Diam. 45 m.
d
f
e
7 Diam.

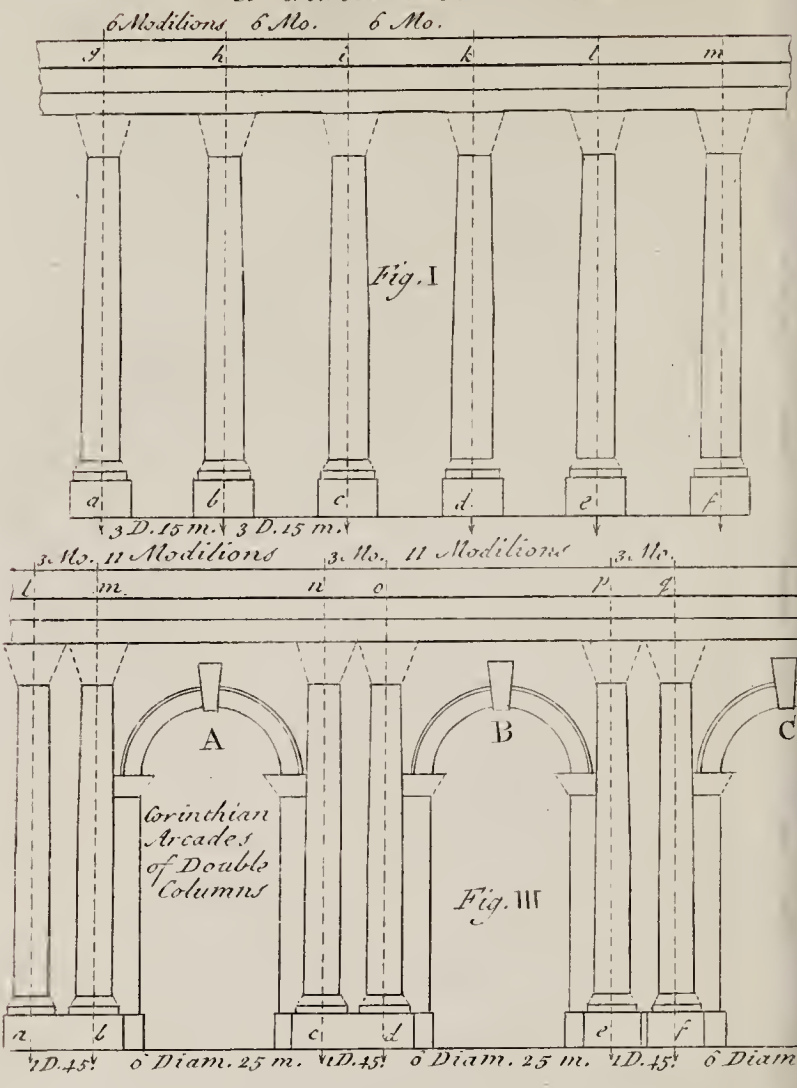

4 Diam. 55 m.
4 Diam. 5 min.
Fig. IV

Sculp. 1738.


13 parts
Fig. I
5 Diam.
7 Diam. 35 min.
Batty Langley Invent. Delin. & Sculp. 1738

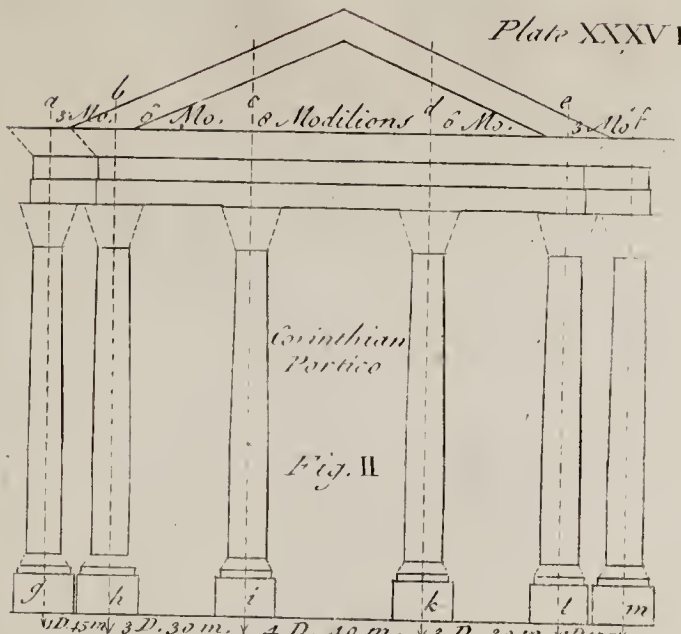

a
b
c
d
f
B
k
l
m
r
p
A
40
4 Diam. 40 min.
7 Diameters
1 D. 45 m.
E
F
G
H
I
h
i
k
for Key Stones

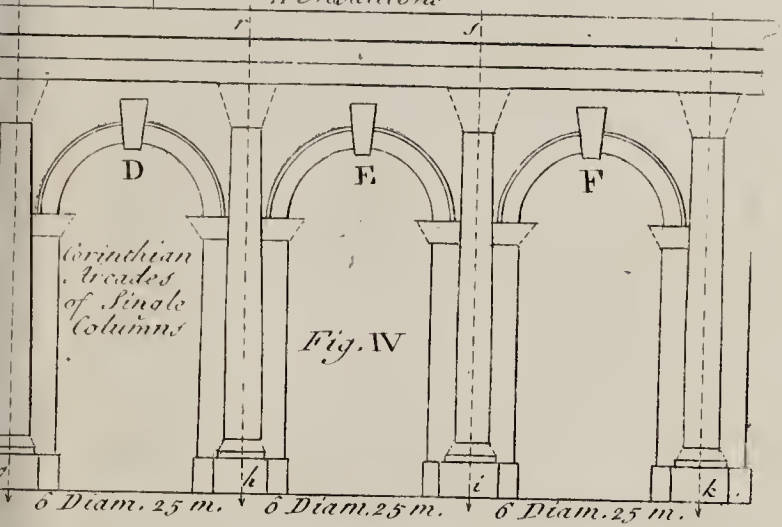
Corinthian Colonade



Roſes *for the Enrichment of Coffer*

Batty Langley Invent. Delin. & Sculp. 1738.



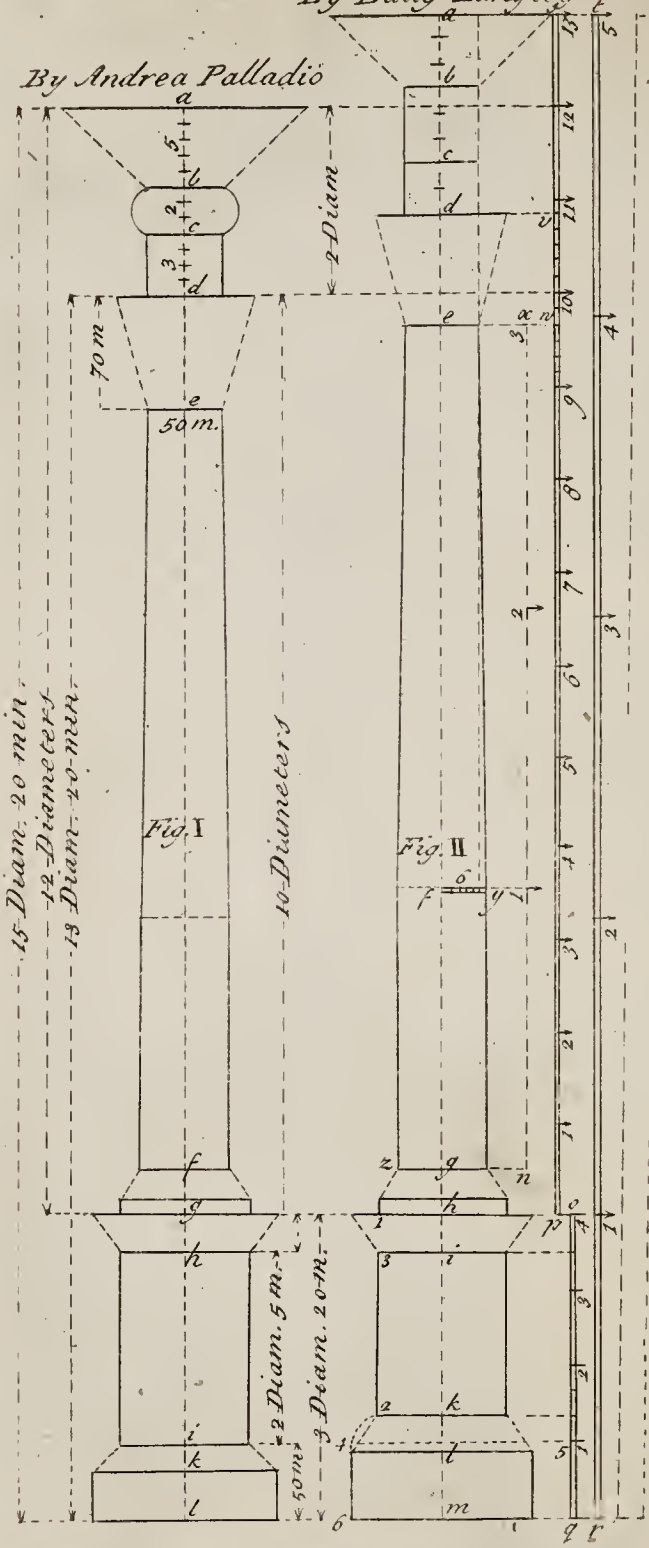


the Planceer's of Cornices &c.

The Principal Parts of the Composite Order.

By Batty Langley

By Andrea Palladio



Batty Langley Invent. Delin. & Sculp. 1738.

Composite Pedestals

Plate XXXIX.

a Palladio *By Batty Langley*

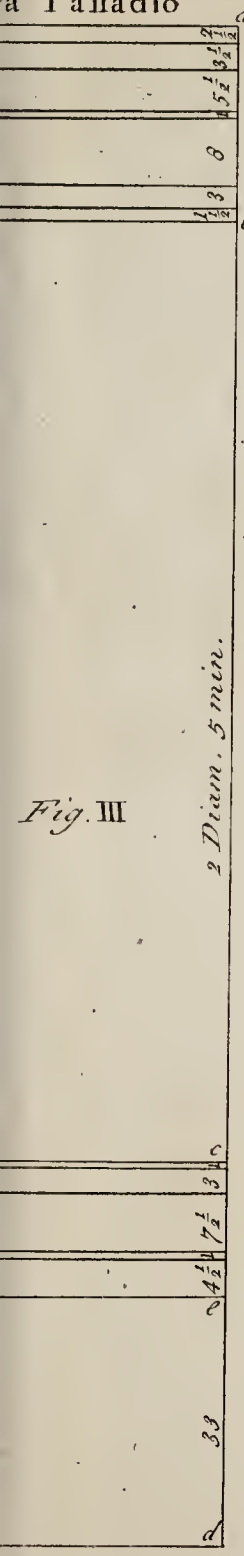


Fig. III

2 Diam. 5 min.

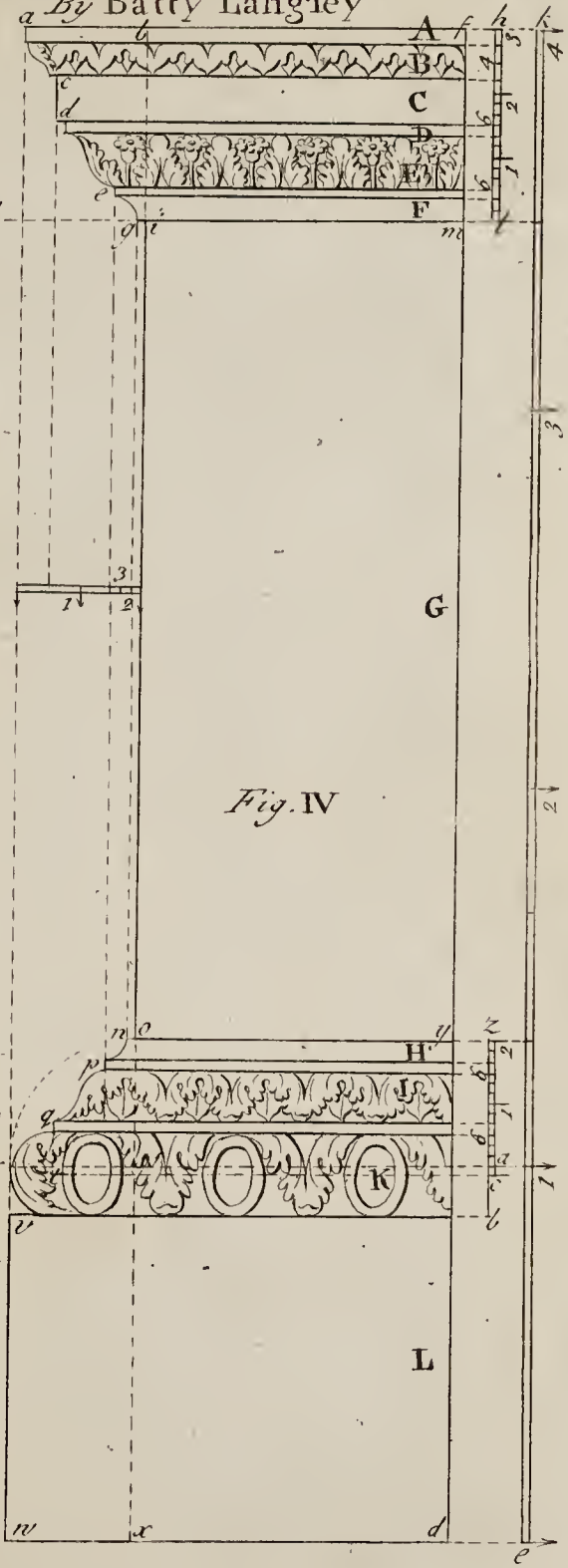
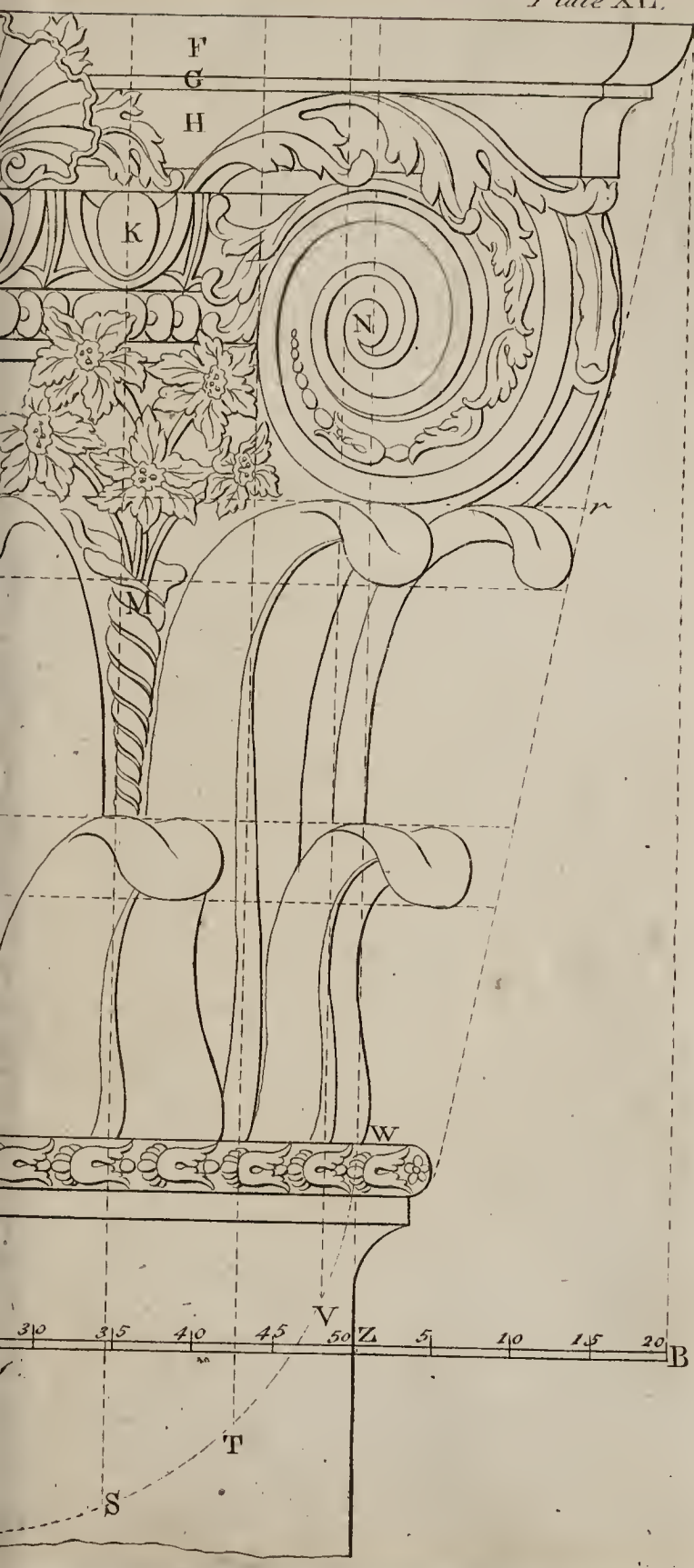
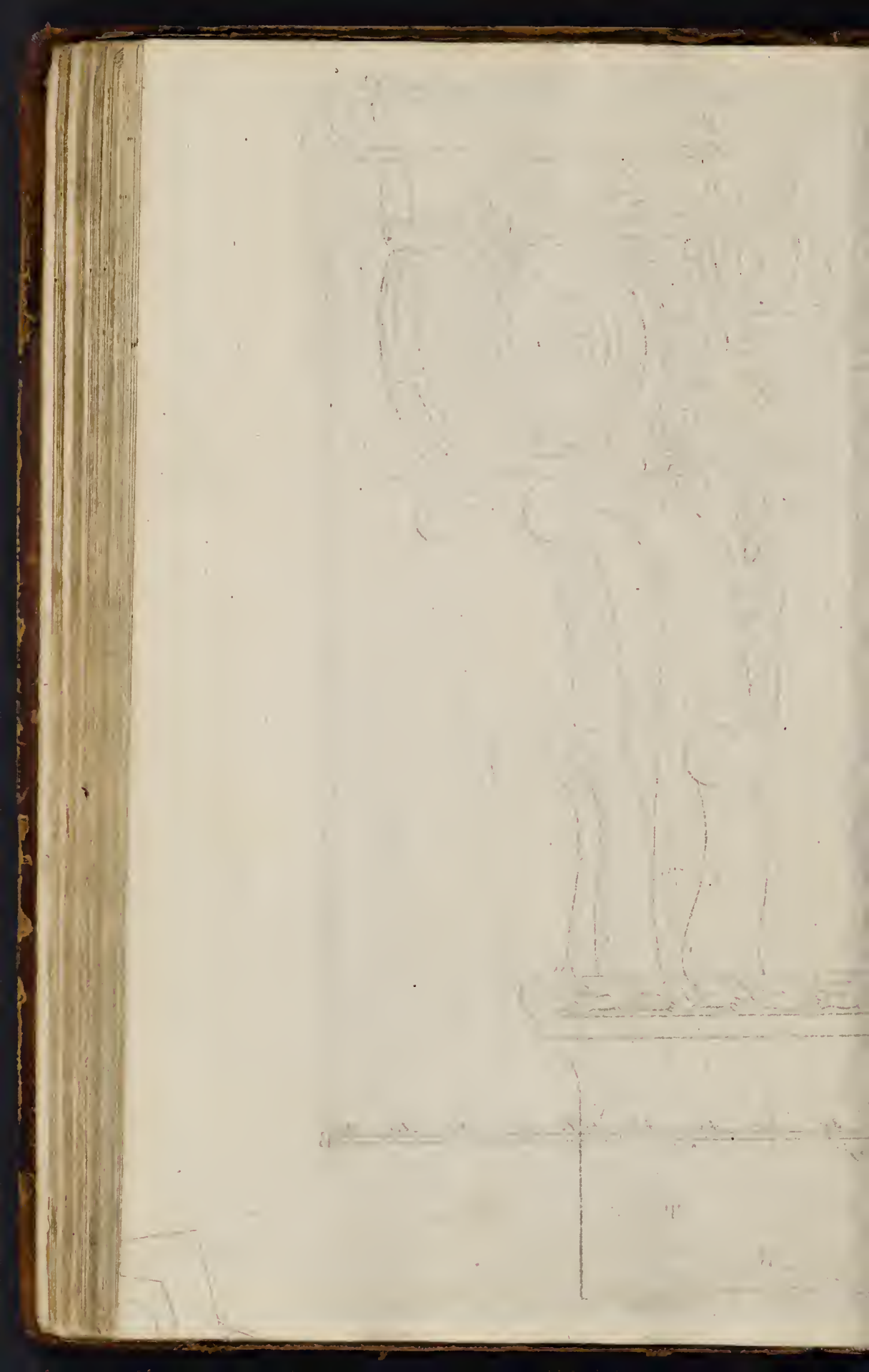


Fig. IV

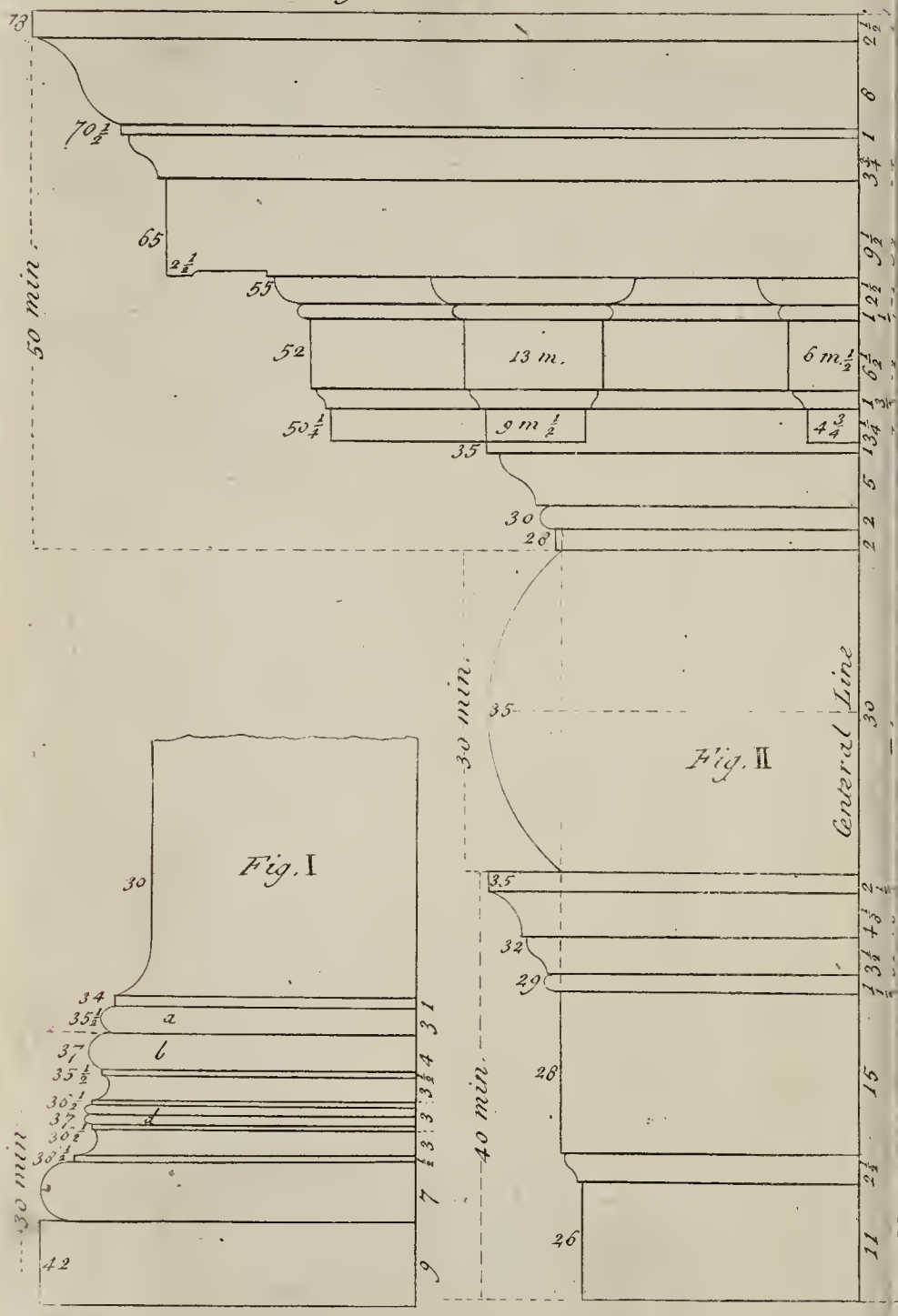
Composite capital by Batty Langley.

Batty Langley Invent. Delin. & Sculp. 1738.


F
G
H
K
N
M
W
V
B
T
S
30
35
40
45
50
55
60
65
70
75
80

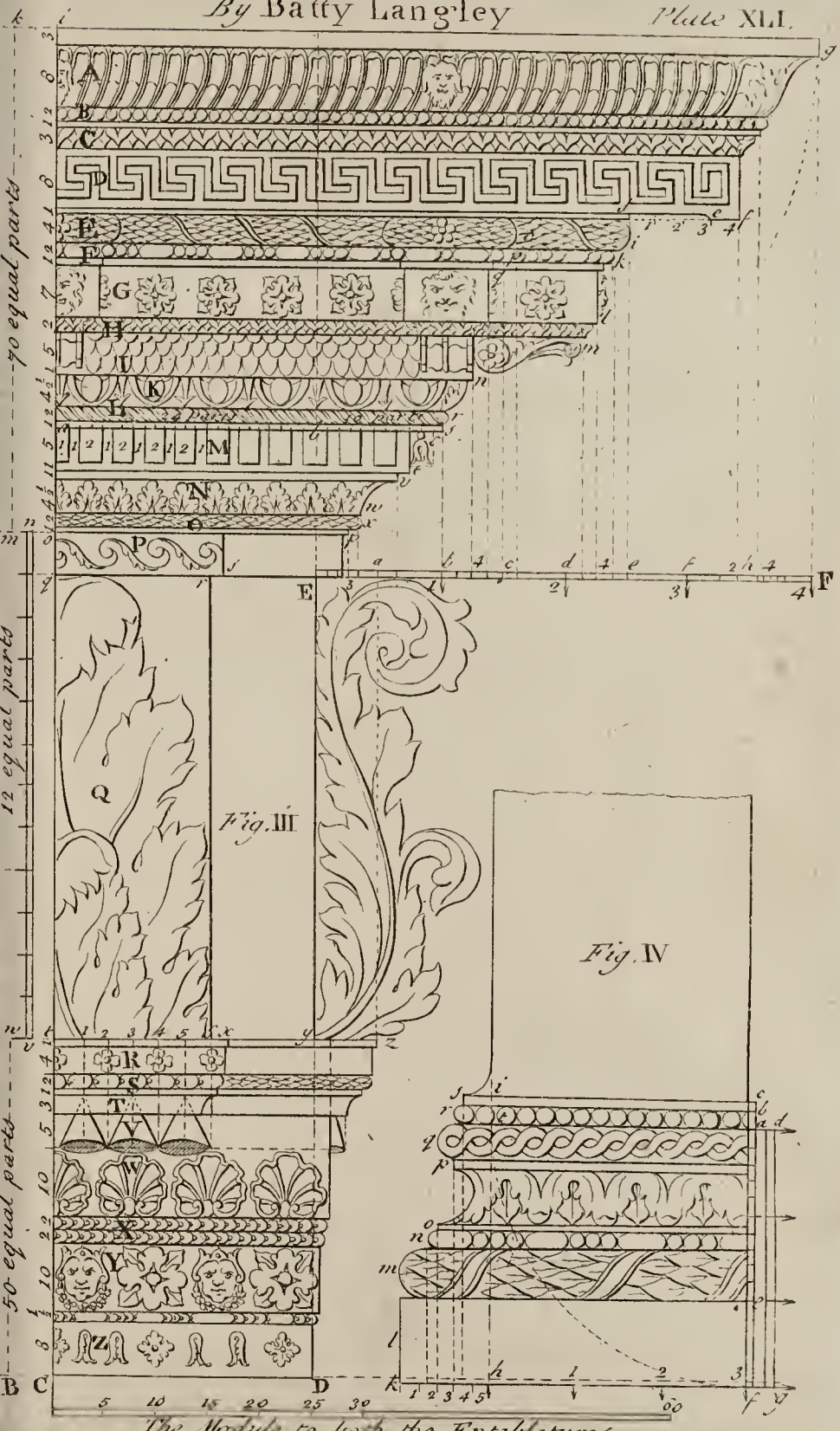


By Andrea Palladio

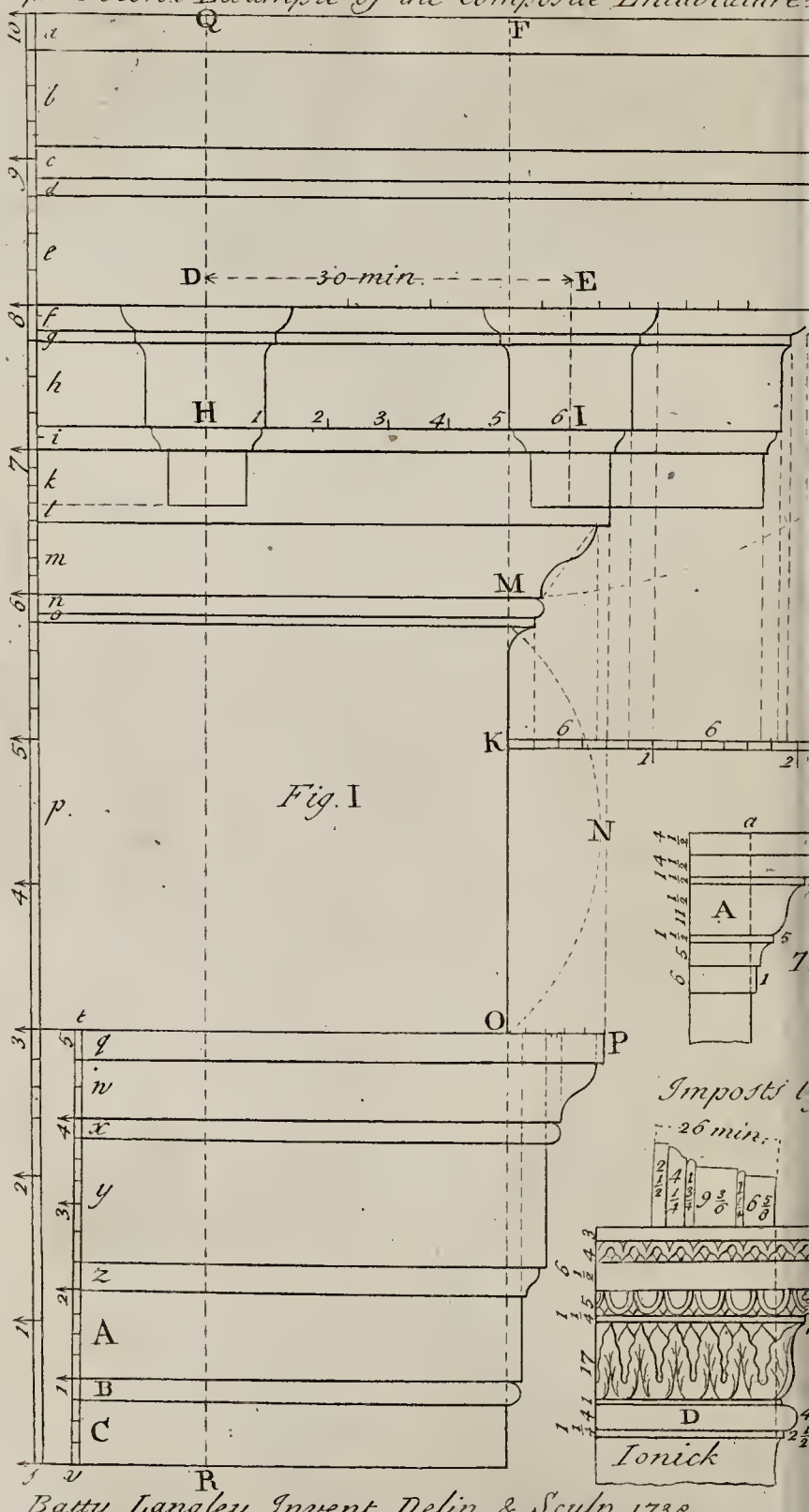


Batty Langley Invent. Delin. & Sculp. 1738.

By Batty Langley *Plate* XLI.



A Second Example of the Composite Entablature



Batty Langley Invent. Delin. & Sculp. 1738.

atty Langley

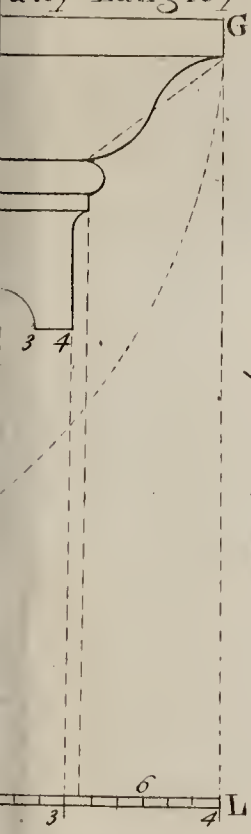
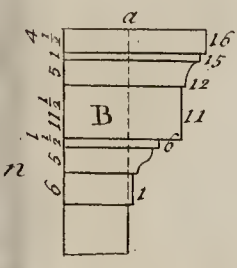
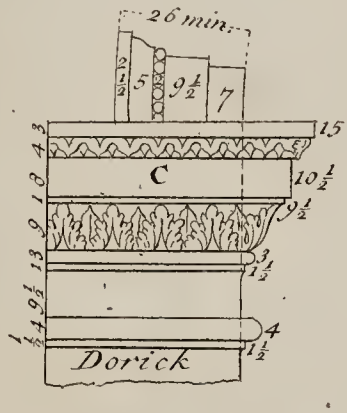
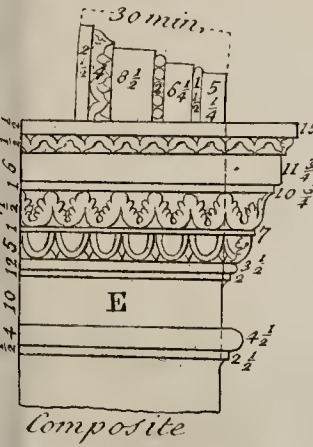


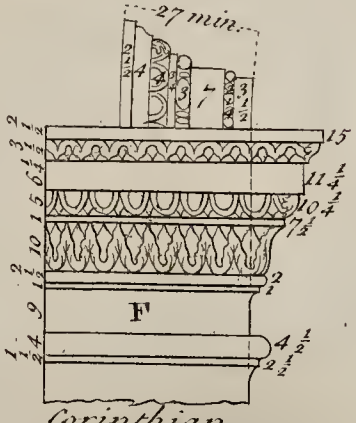
Plate XLII.





ndrea Palladio





Compoſite Fro

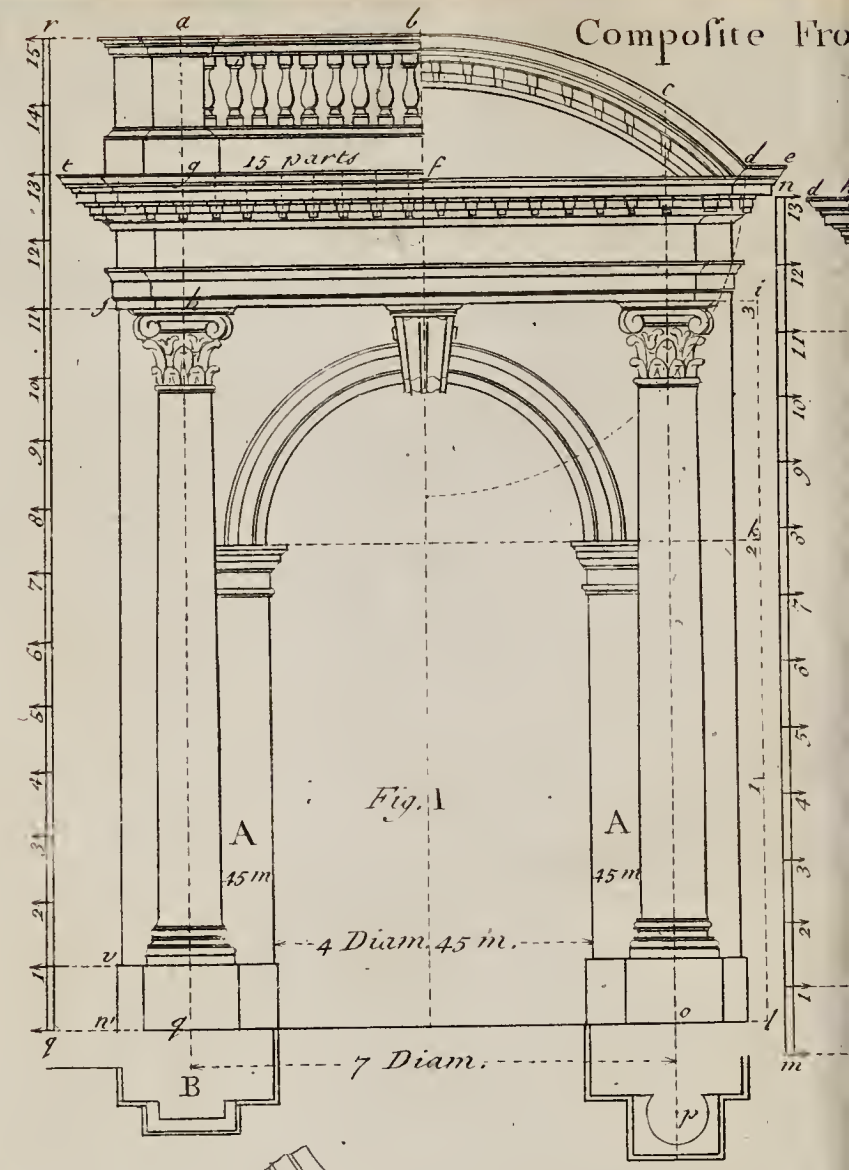


Fig. 1

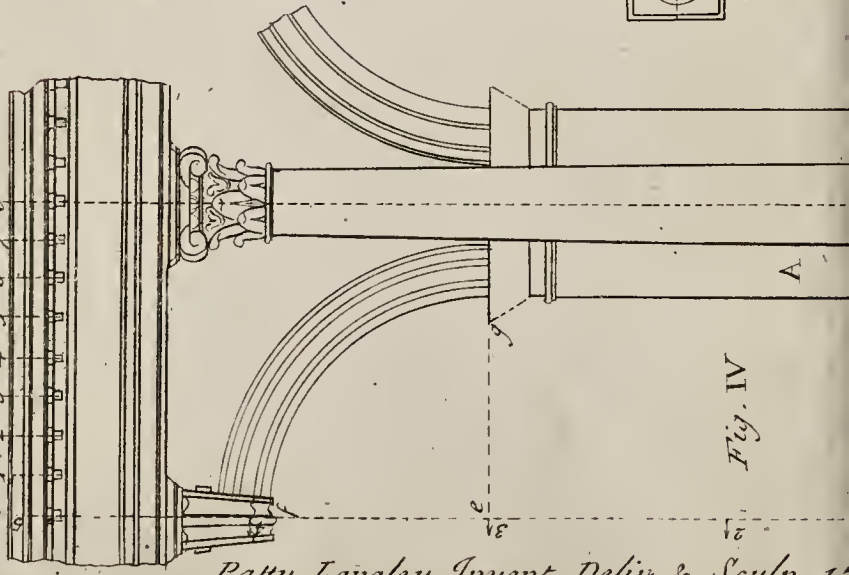
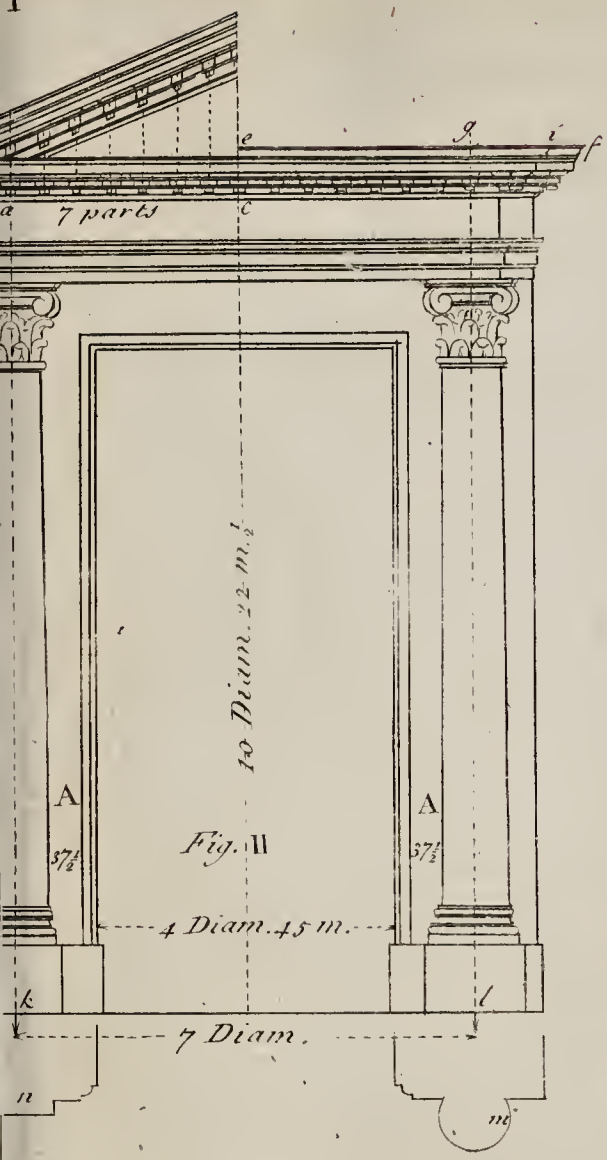


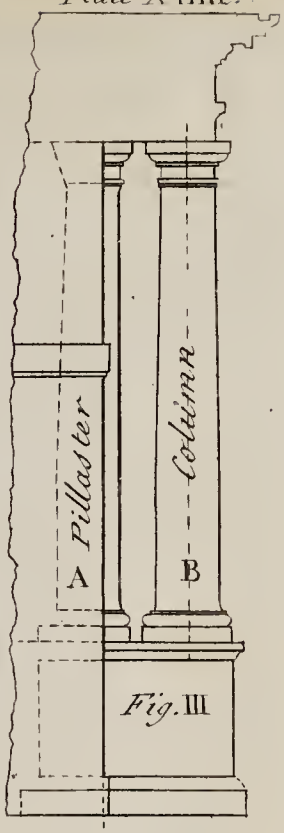
Fig. IV

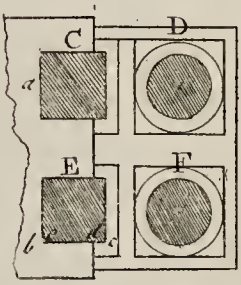
Batty Langley Invent. Delin. & Sculp. 17

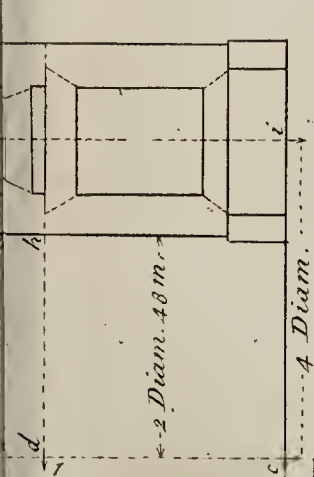
pieces

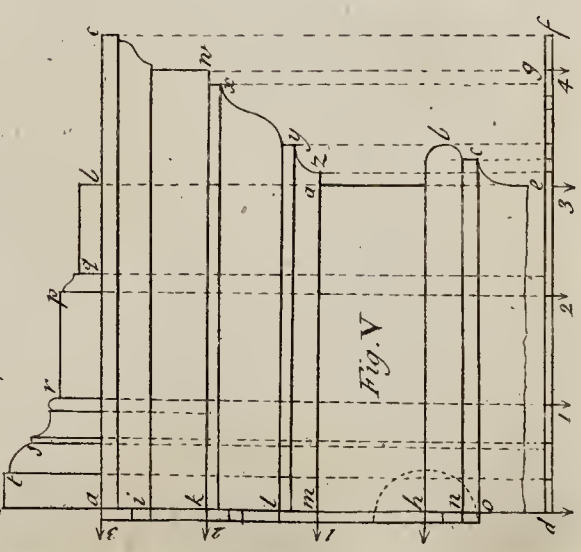
Plate XLIII.











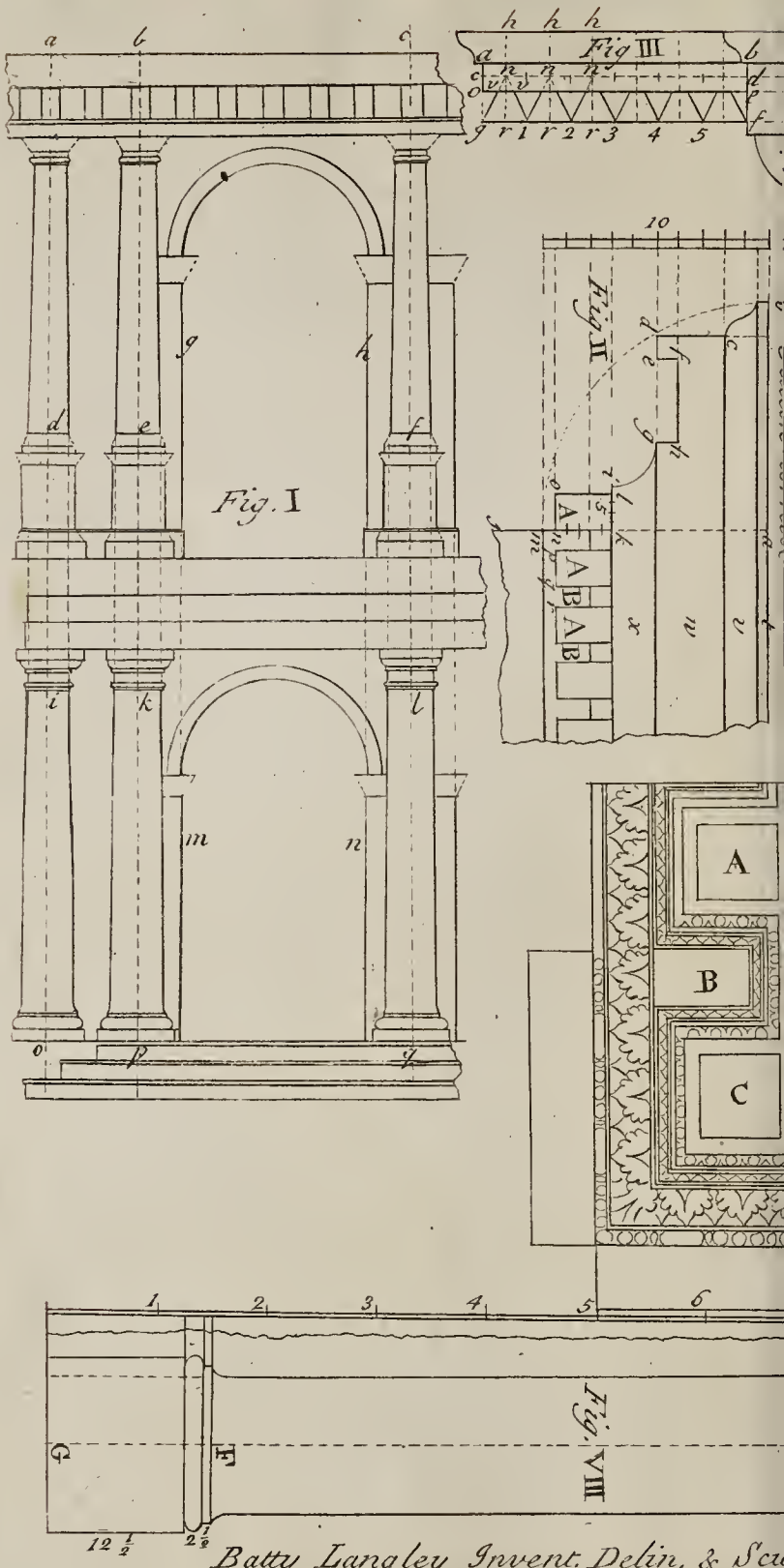
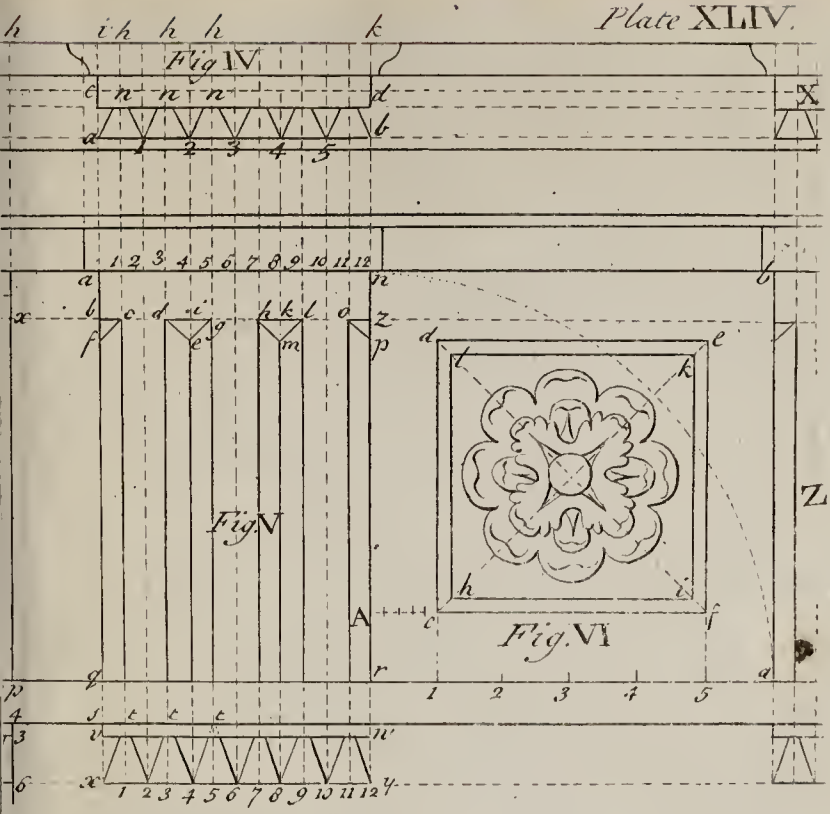
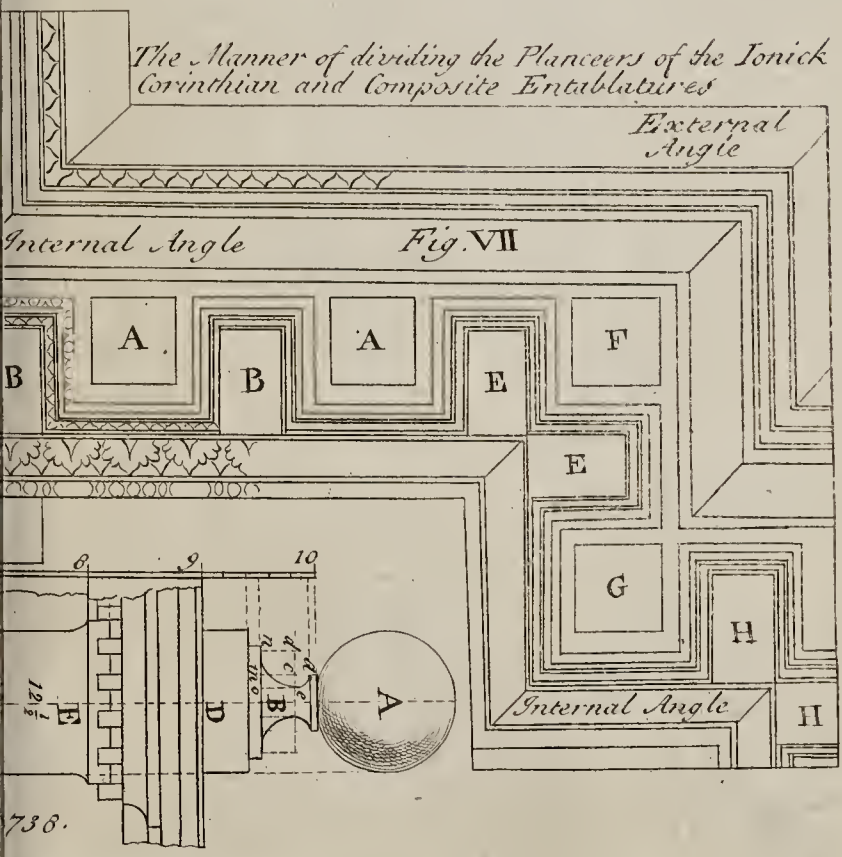


Fig. I
Fig. II
Fig. III
Fig. VIII
A
B
C
Batty Langley Invent. Delin. & Scu

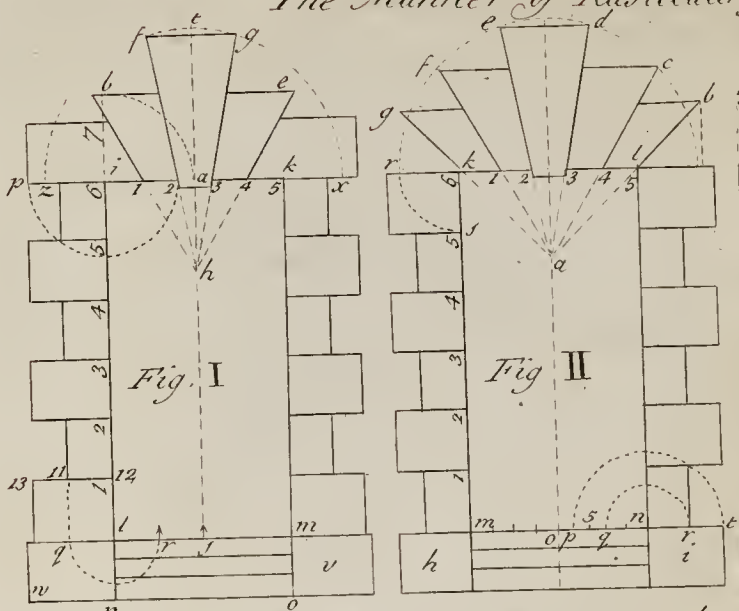


The Manner of dividing the Planceers of the Ionick Corinthian and Composite Entablatures

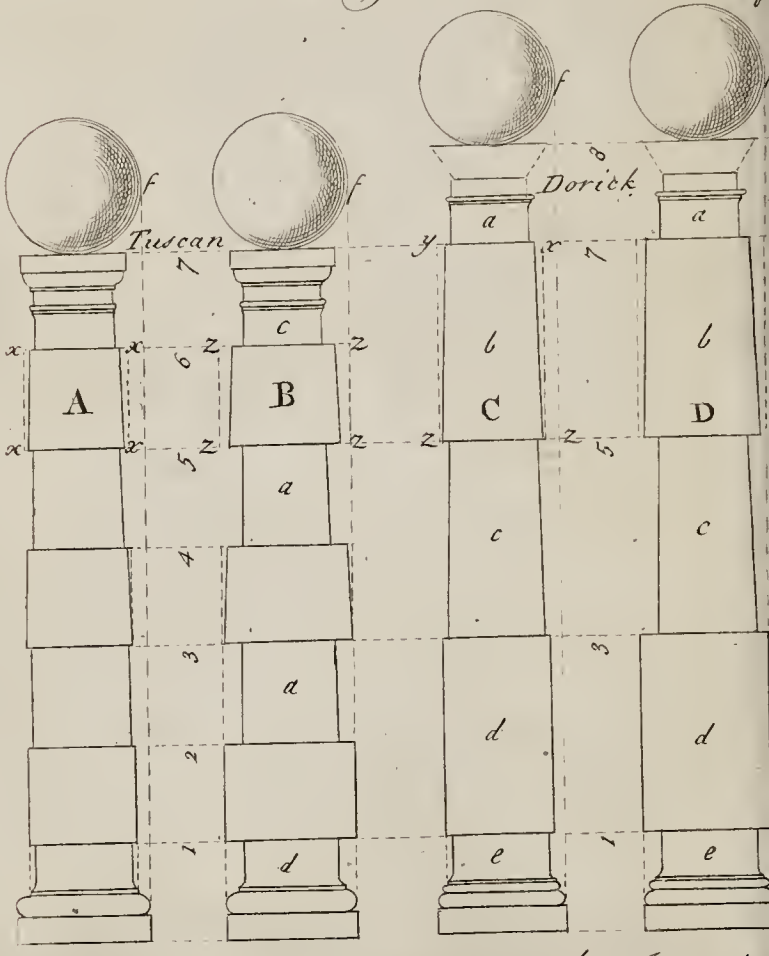


736.

The Manner of Rusticating



The Manner of Rusticating the Sha



Batty Langley Invent.

Plate XLV.

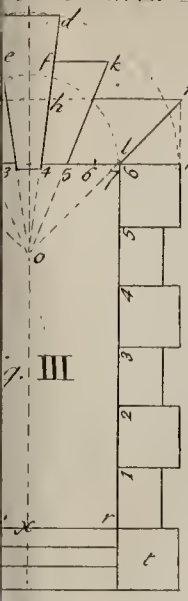


Fig. III

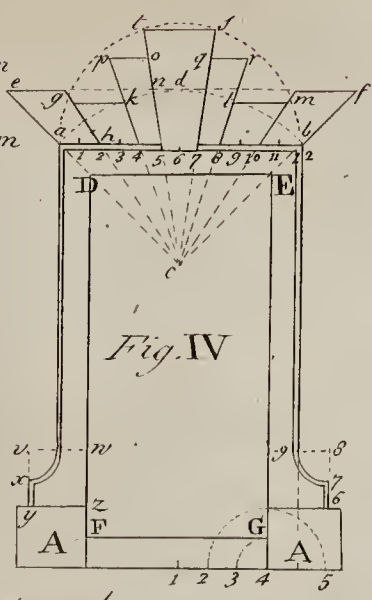


Fig. IV

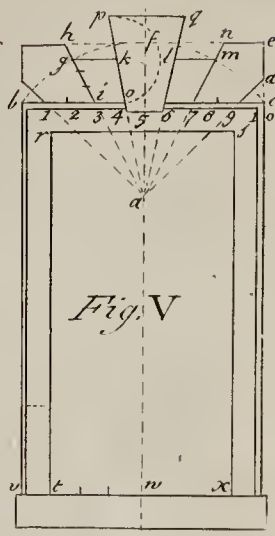
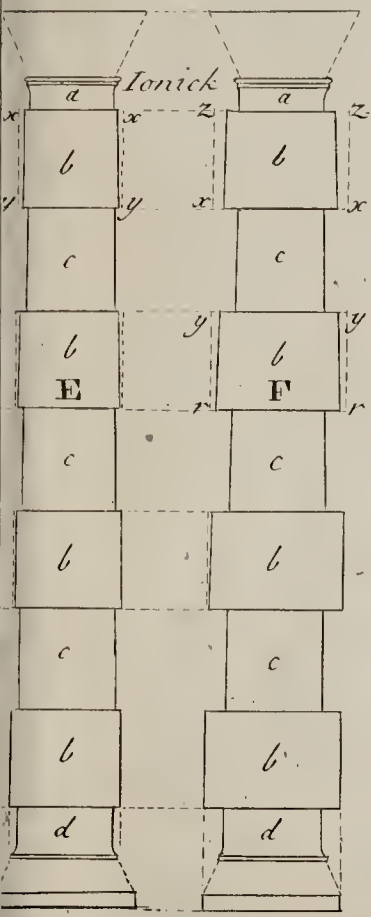


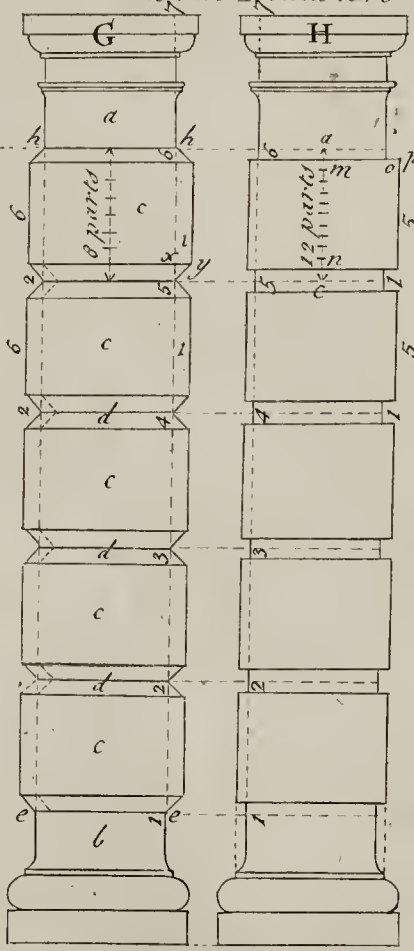
Fig. V

of Columns and Pillasters

Ionick

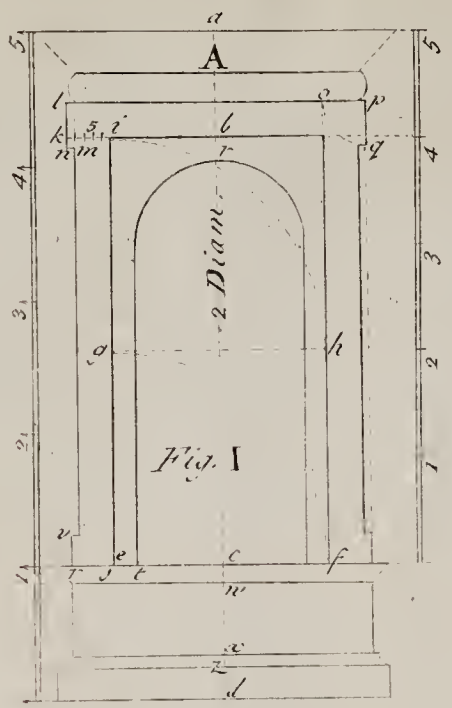


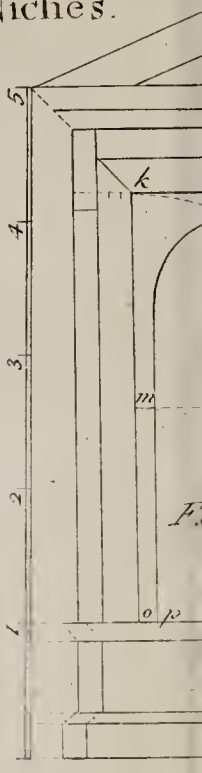
Tuscan Pillasters

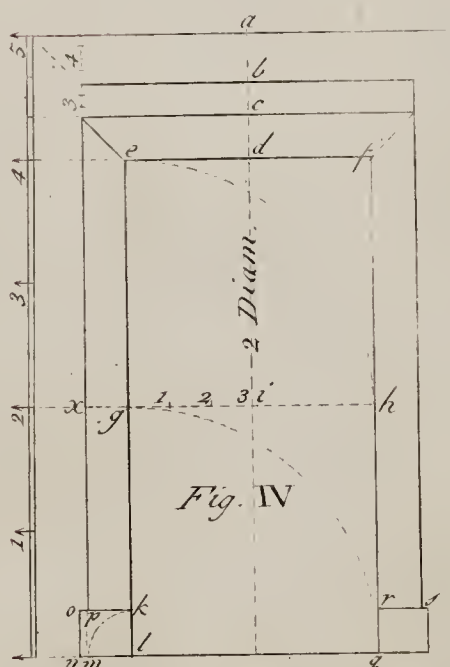


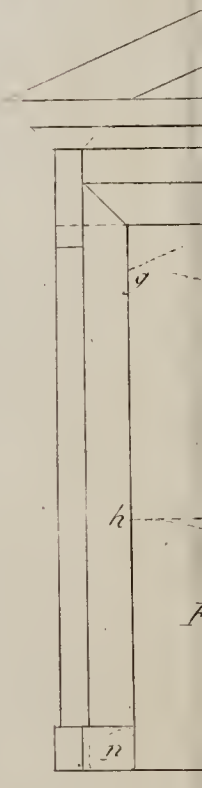
& Sculp. 1738.

The Manner of Proportioning the Principal pa
Entablatures to Doors, Windows & Niches.









Batty Langley Invent. Delin. & Sculp.

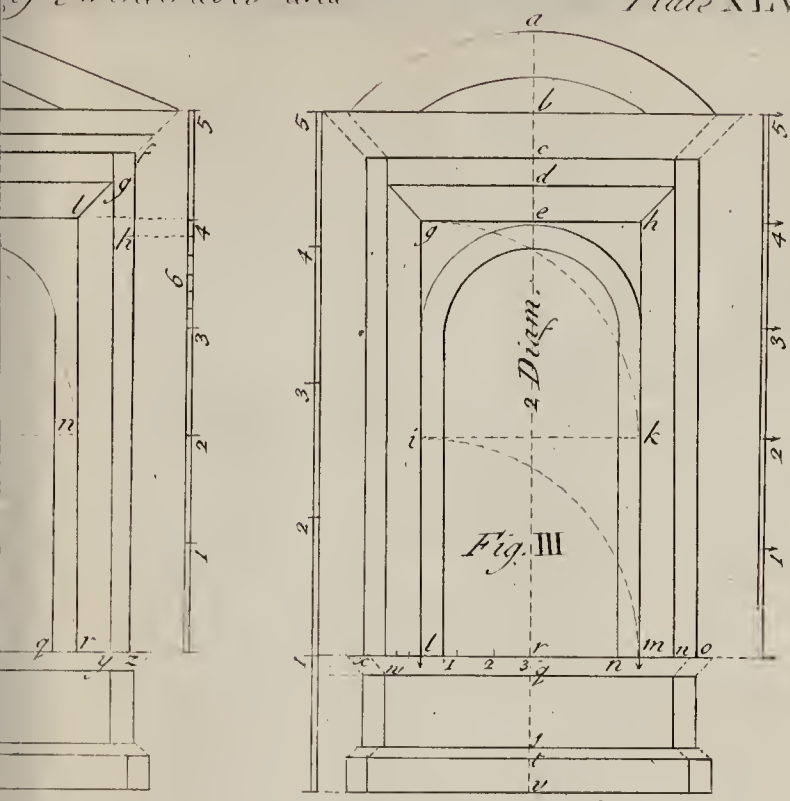


Fig. III

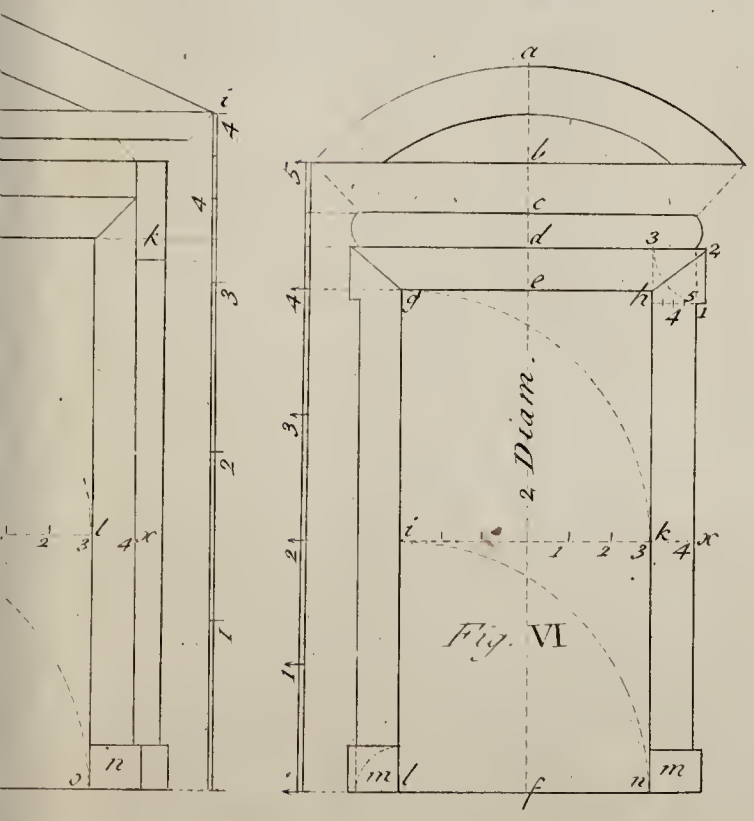
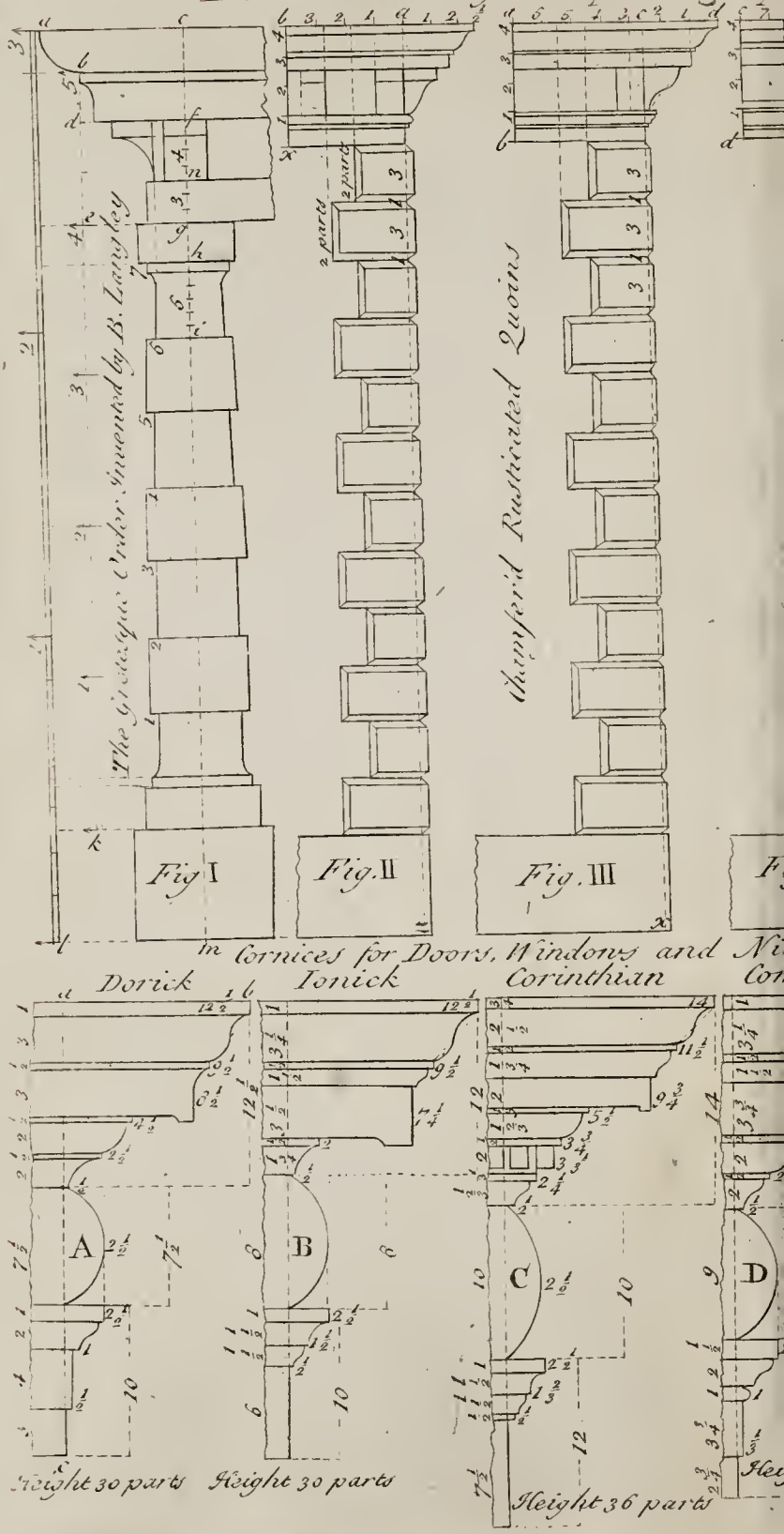
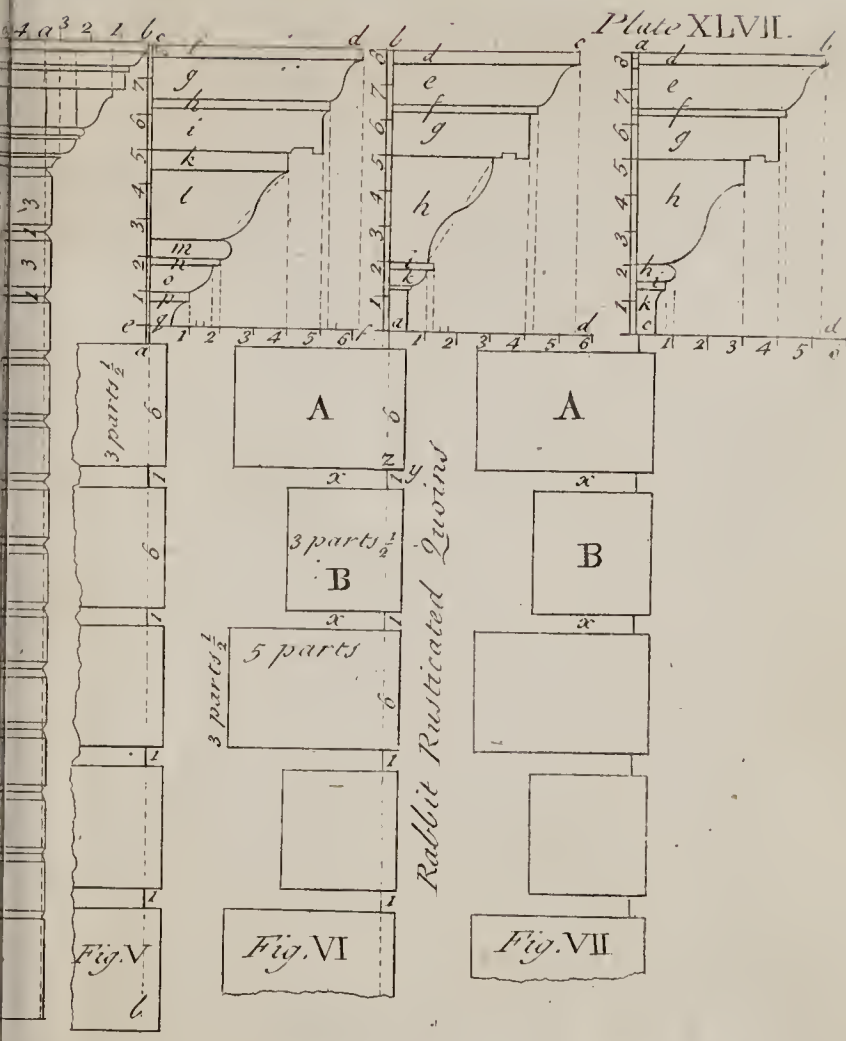
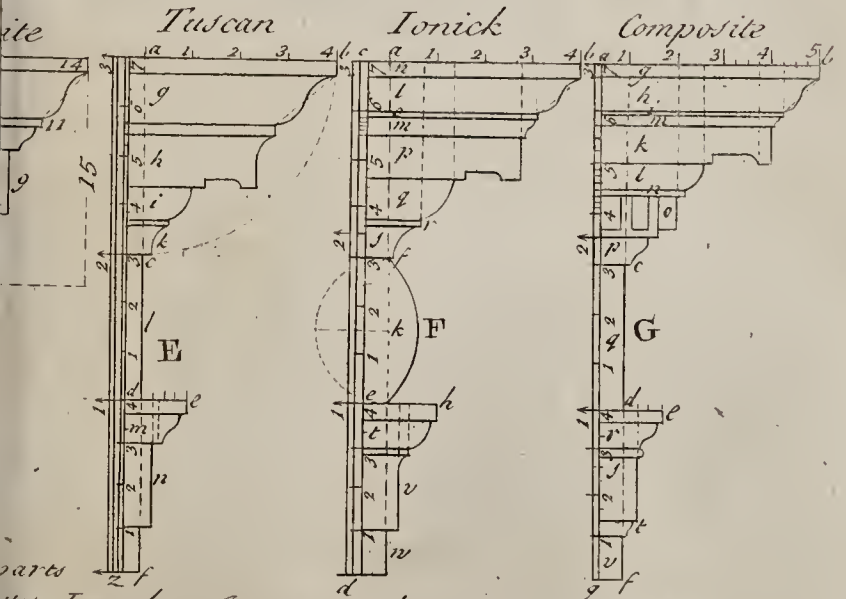


Fig. VI

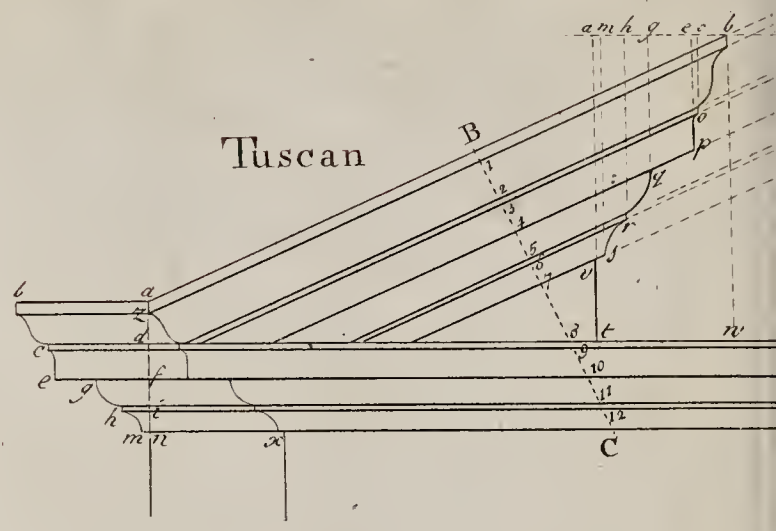

Block Cornices by Batty Langley
The Grecian Order, Invented by B. Langley
Fig I
Fig. II
Chamfer'd Rusticated Quoins
Fig. III
In Cornices for Doors, Windows and
Dorick
Ionick
Corinthian
A
B
C
D
Height 30 parts
Height 30 parts
Height 36 parts

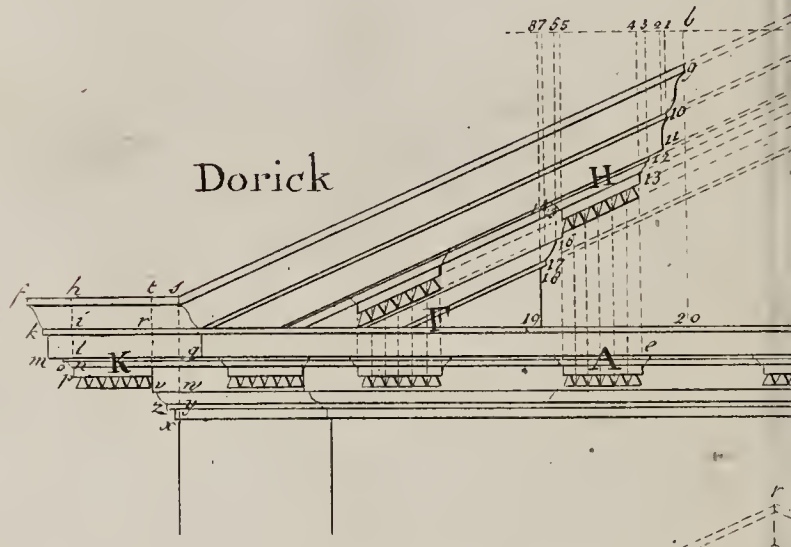




tty Langley Invent. Delin. & Sculp. 1738.

Broken, or Open Pediments Demonstrated





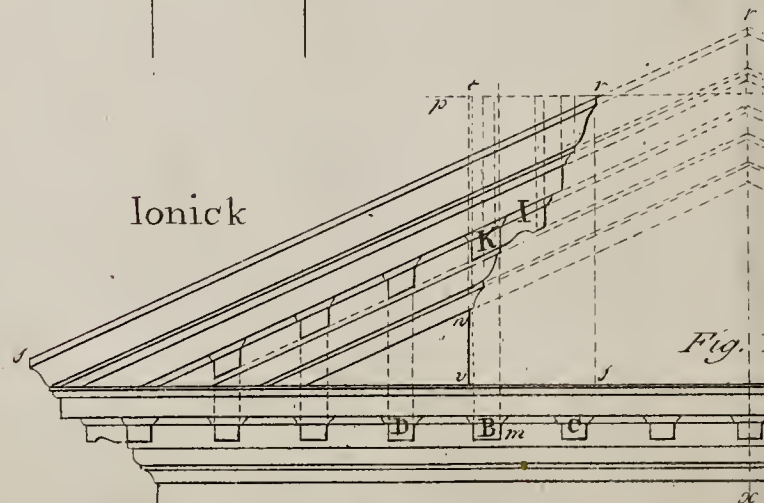
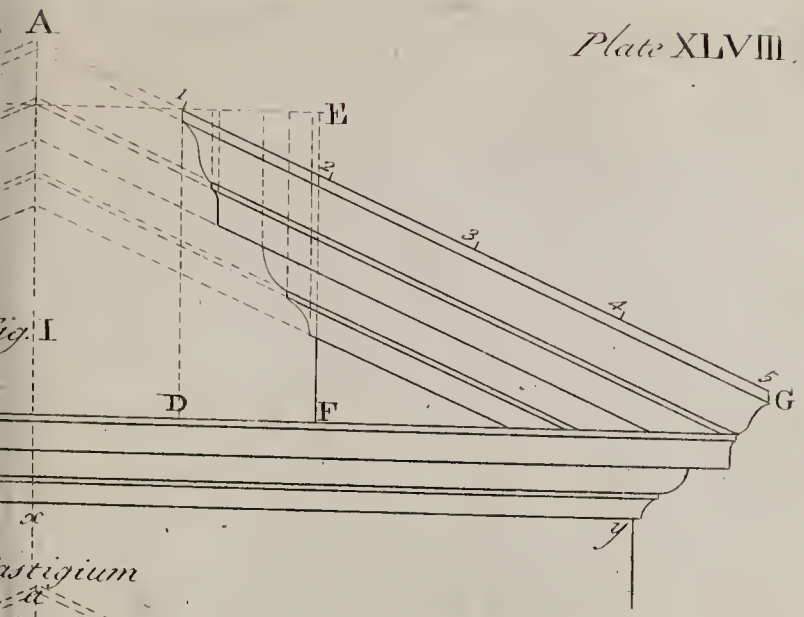


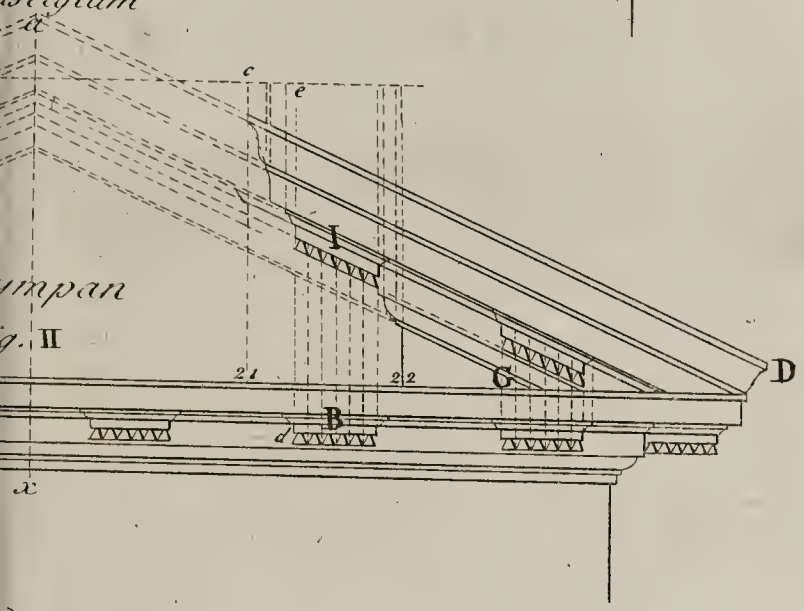
Fig.

Batty Langley Invent.



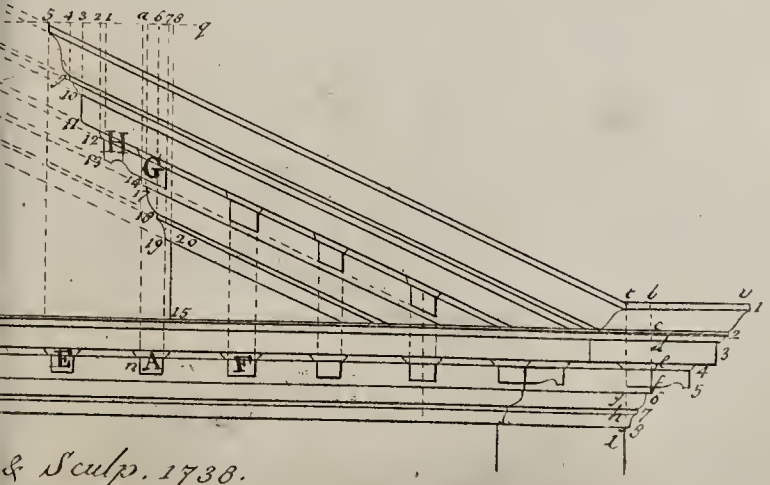
ig. I

astigium



ympan

g. II



& Sculp. 1738.

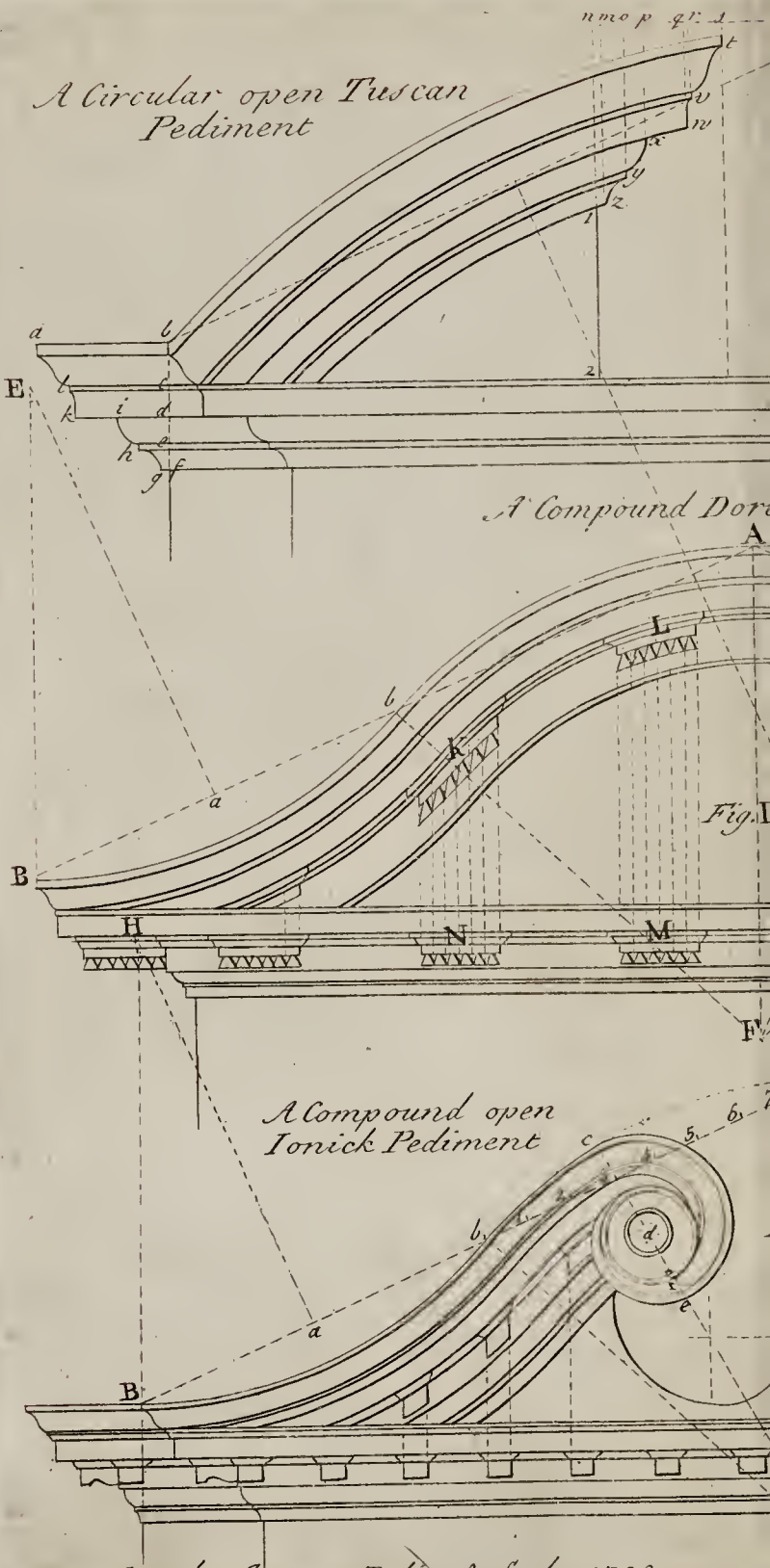
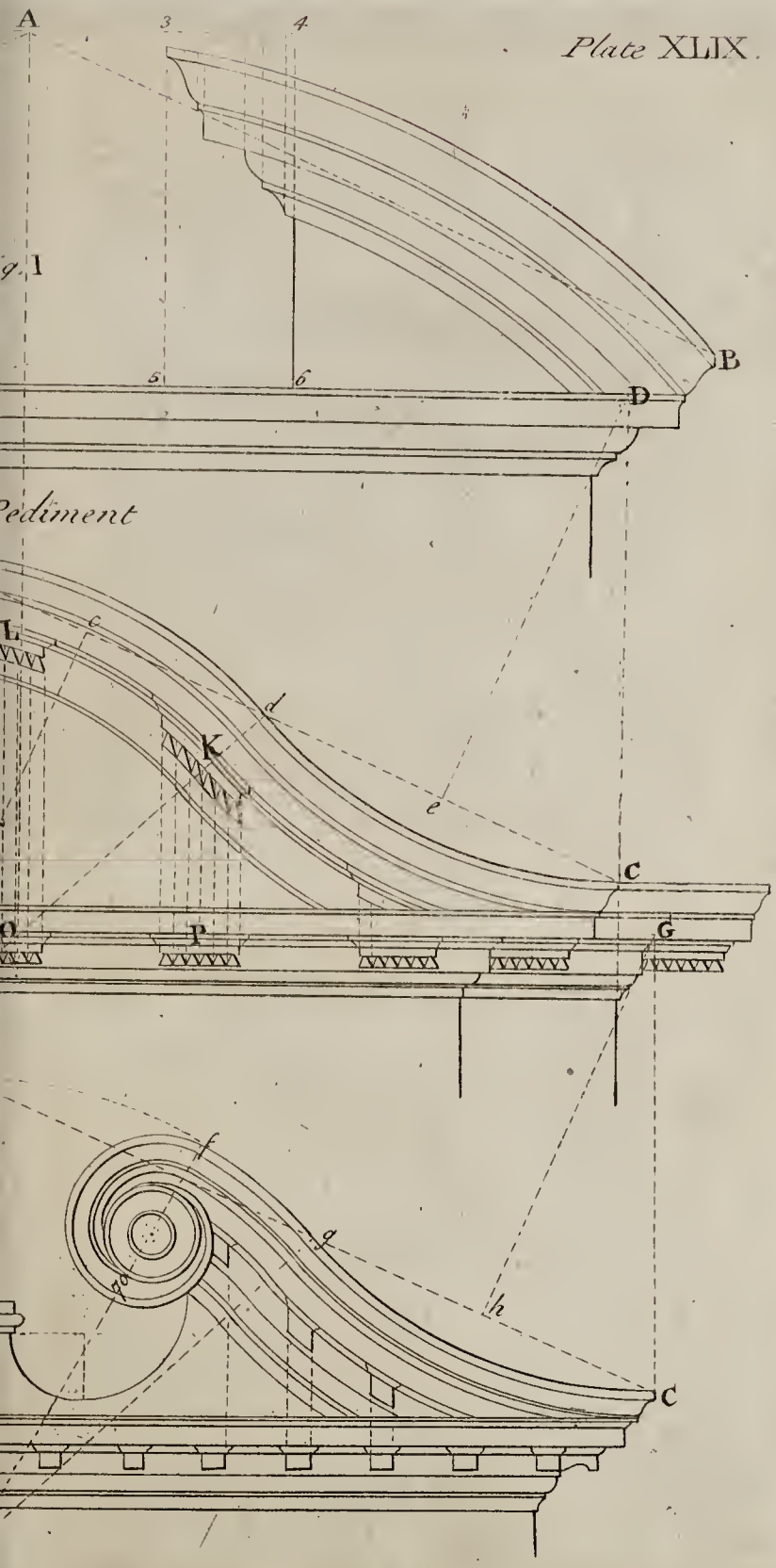

A Circular open Tuscan Pediment
A Compound Dor
A Compound open Ionick Pediment
Fig. I
Batty Langley Invent. Delin. & Sculp. 1738.

Plate XLIX.



Scarfings for Raisings, Plates &c.

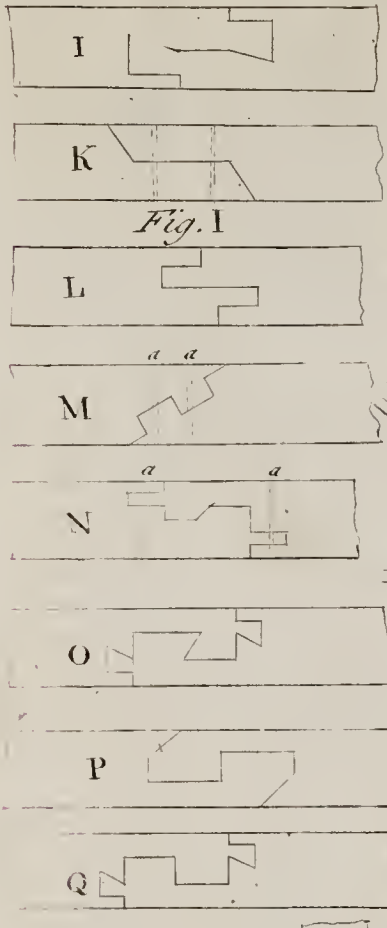
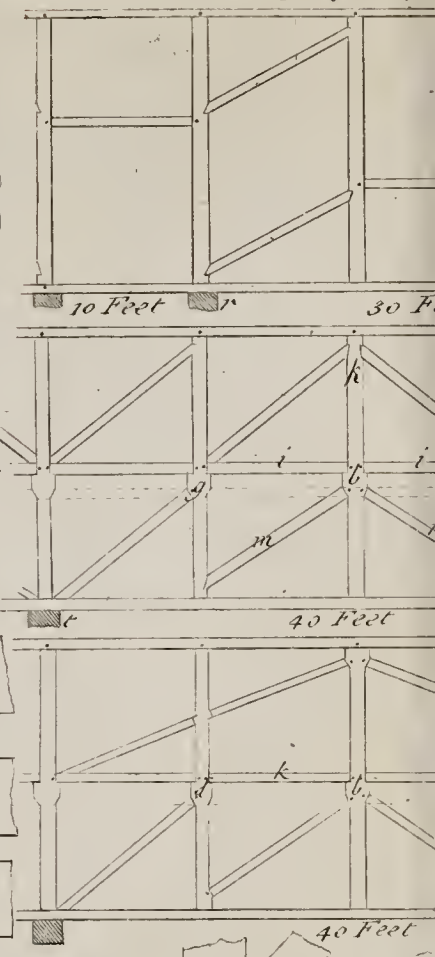
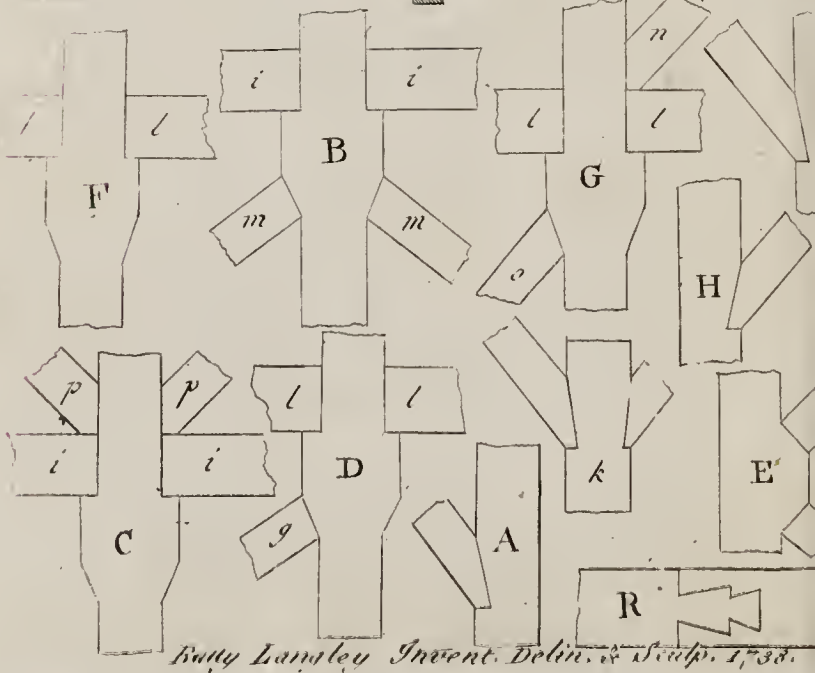


Fig. I

The Manner of framing





Batty Langley Invent. Delin. & Sculp. 1738.

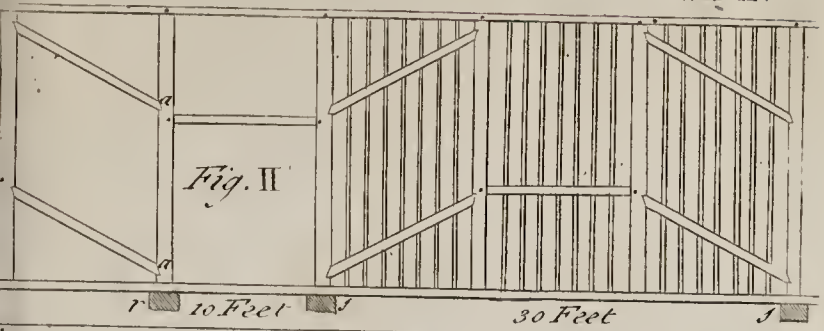


Fig. II
a
a
r
10 Feet
s
30 Feet
s

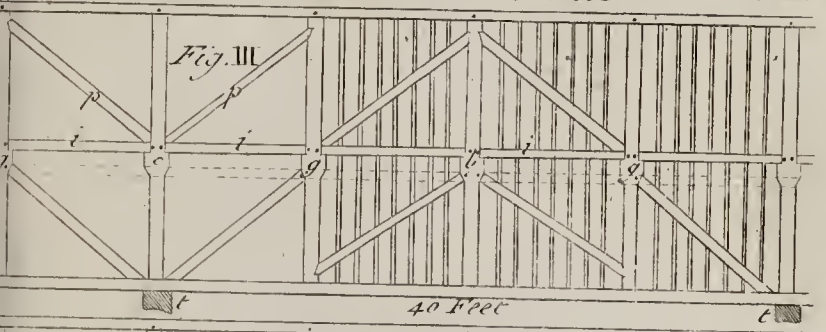


Fig. III
p
p
i
i
c
g
h
i
g
t
40 Feet
t

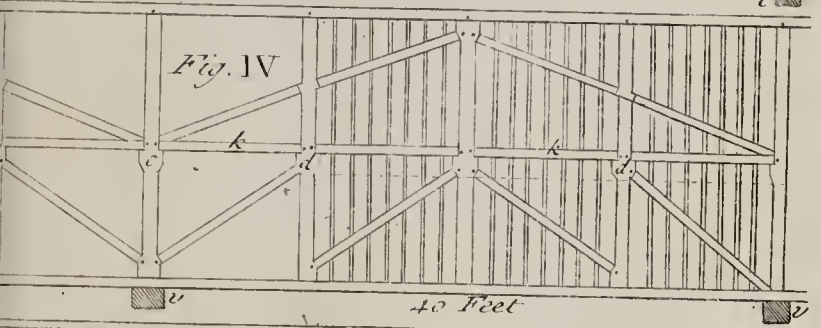


Fig. IV
k
c
d
k
d
v
40 Feet
v

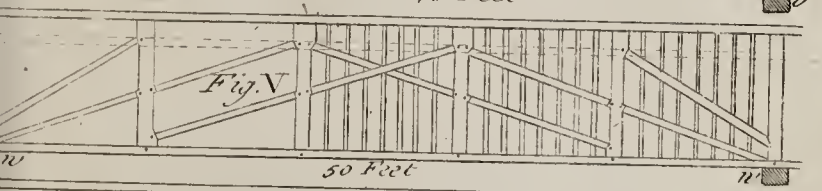


Fig. V
w
50 Feet
n

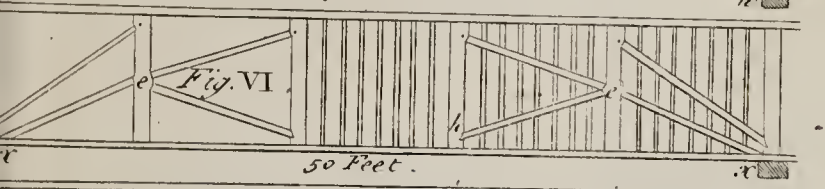


Fig. VI
e
r
50 Feet
x

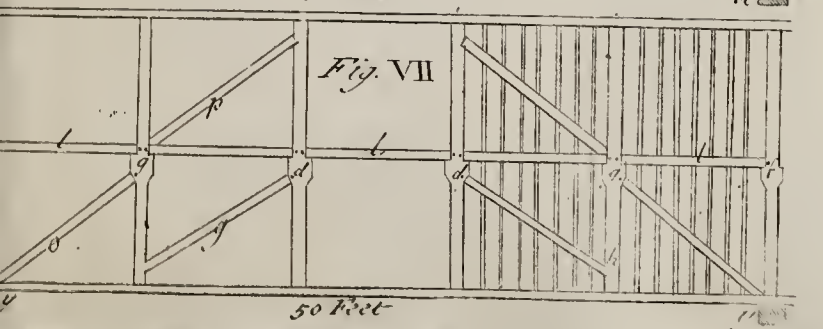
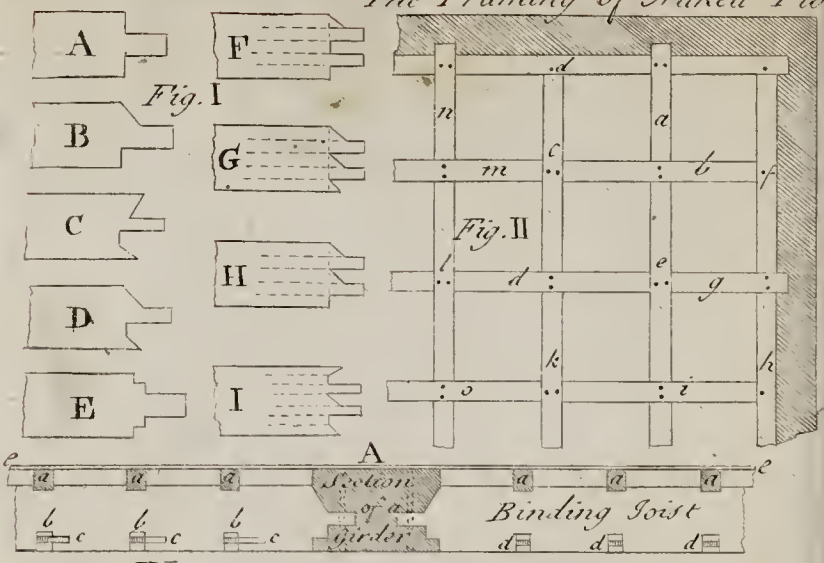
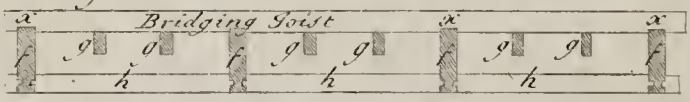


Fig. VII
p
l
g
d
l
d
q
r
o
y
50 Feet





Batty Langley Invent. Delin. & Sculp. 1738.

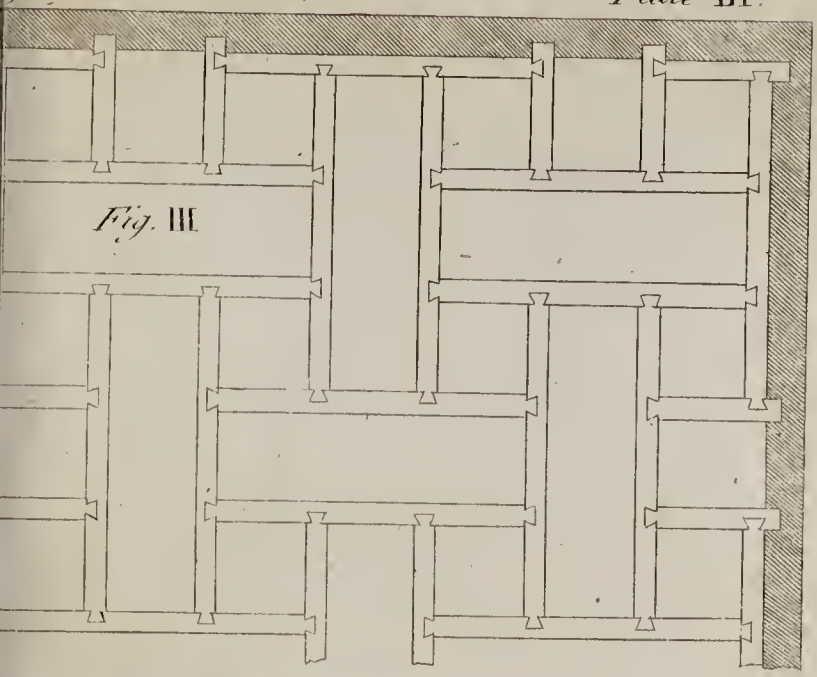
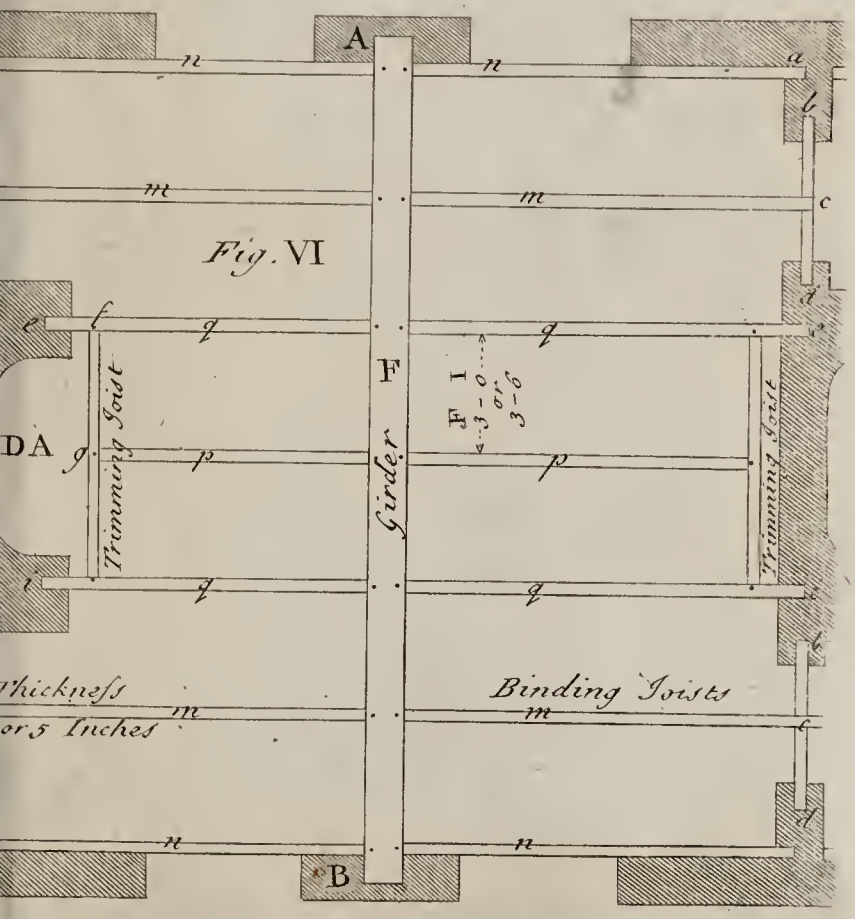
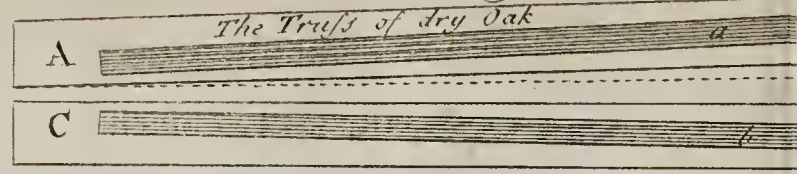


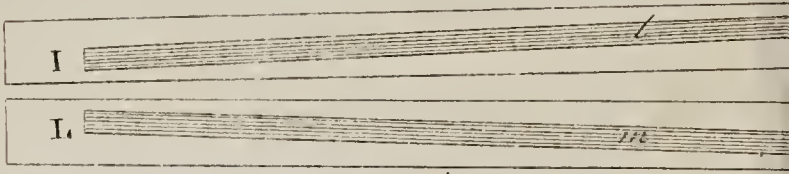
Fig. III


A
B
n
m
q
p
Fig. VI
Trimming Joist
Girder
F I
3-0
or
3-6
Trimming Joist
Binding Joists
Thickness
or 5 Inches

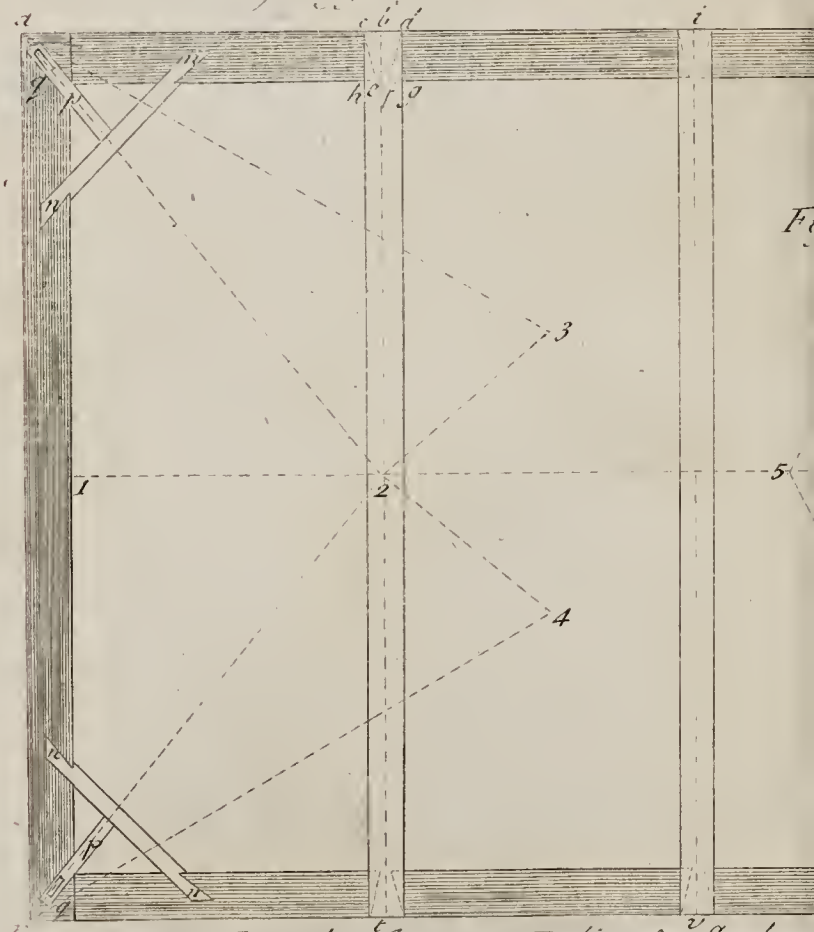
The Manner of Trussing Bea



The Length of each Gir



The Manner of Cogging down Beams on Rai



Batty Langley Invent. Delin. & Sculp.

about 4 Inches Square

a B

b D

h c F

I

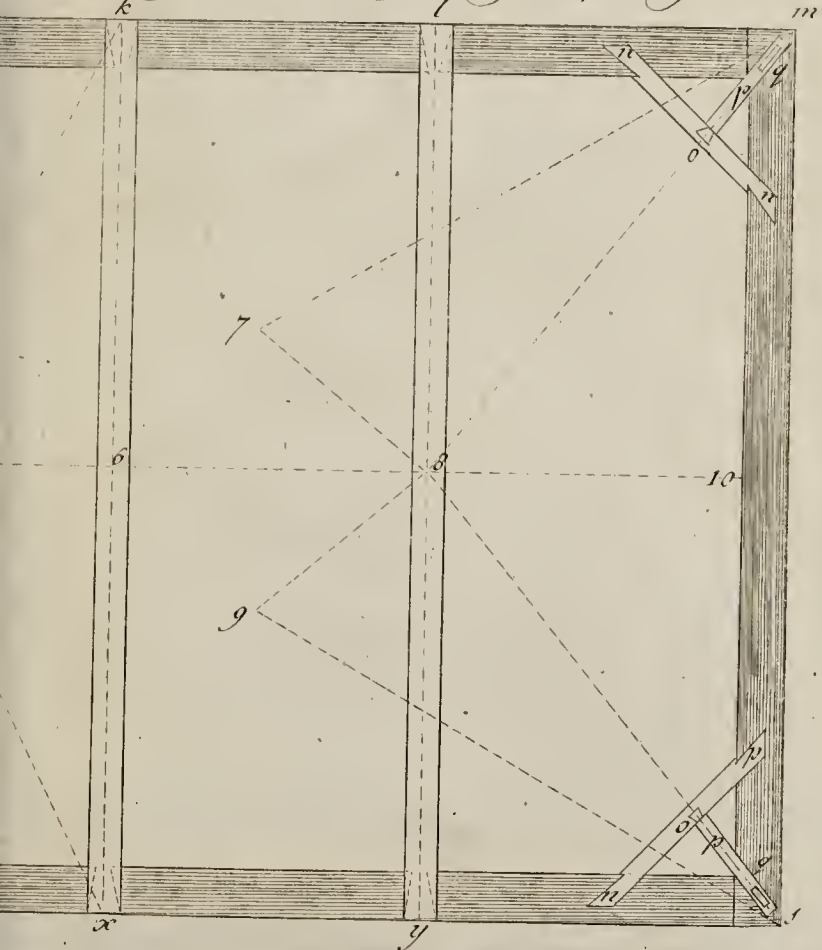
k f H

not to exceed 30 Feet

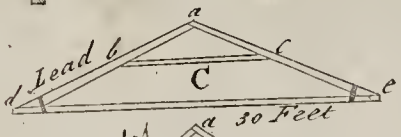
l K

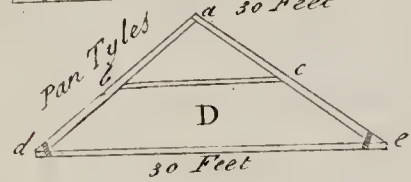
m M

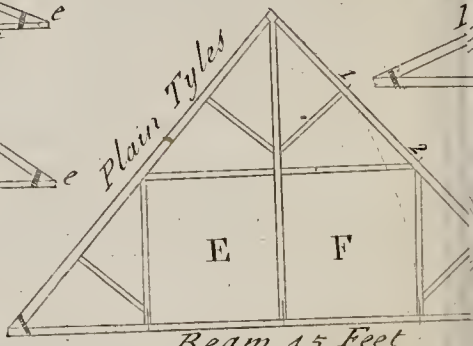
s, and to find the lengths of Hip Rafters

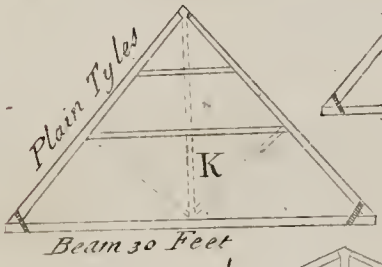


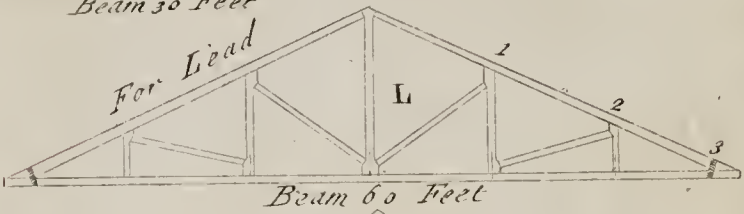
A New Method for truſsing Beams Girders &c.

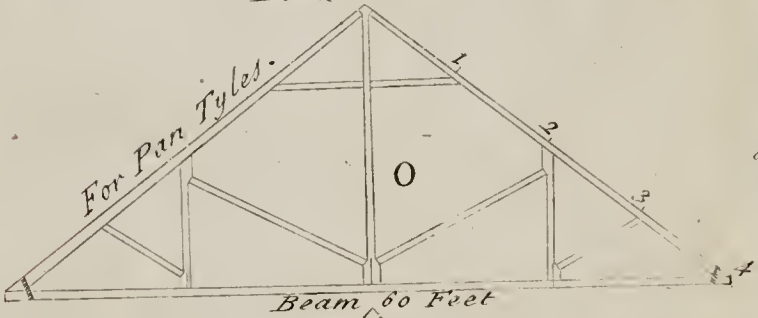


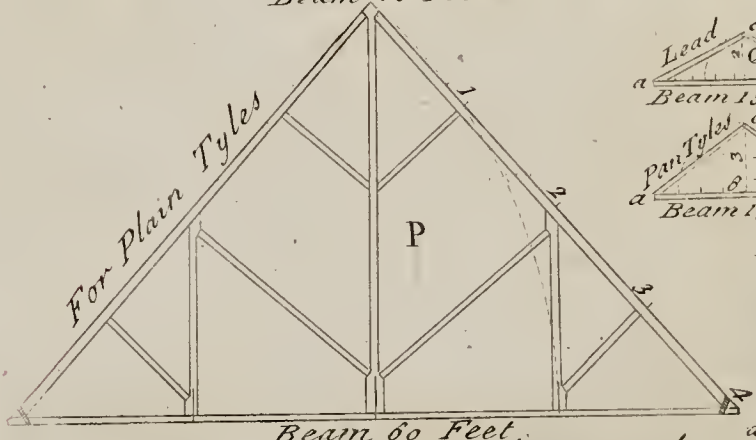




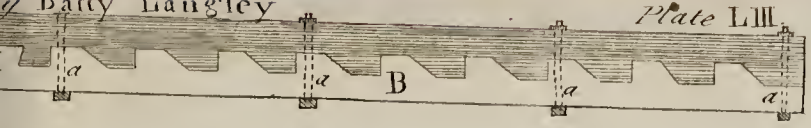




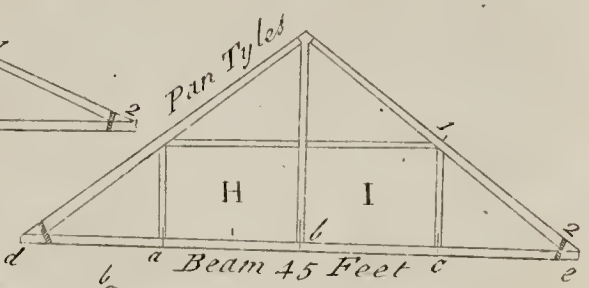




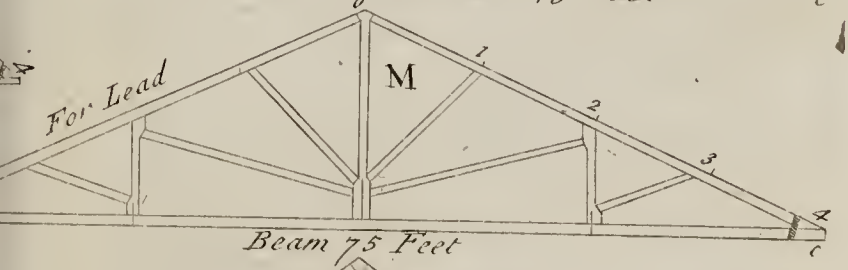
Batty Langley Invent. Delin. & Sculp. 1738



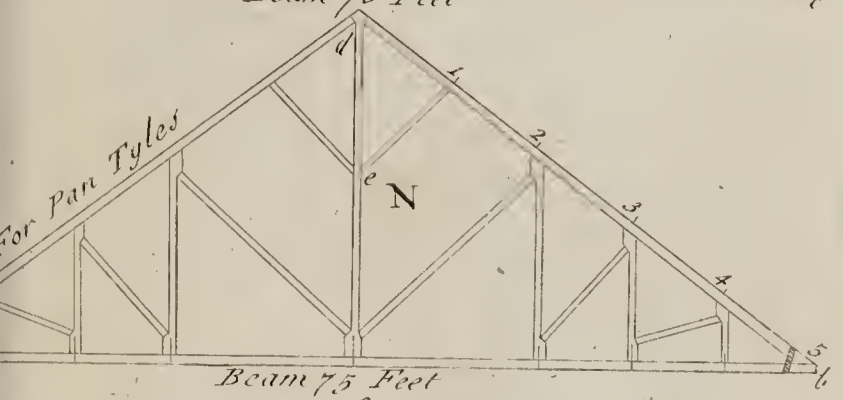
Beam 45 Feet



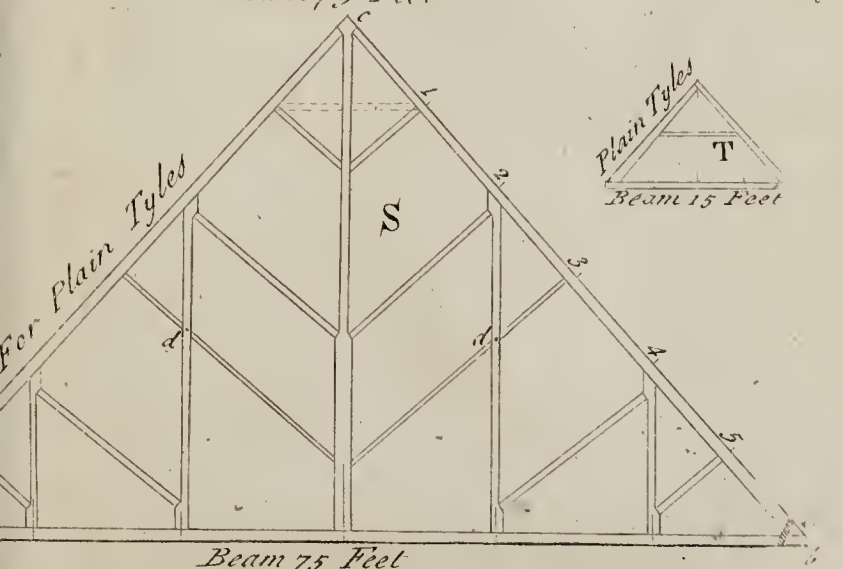
Beam 45 Feet



Beam 75 Feet



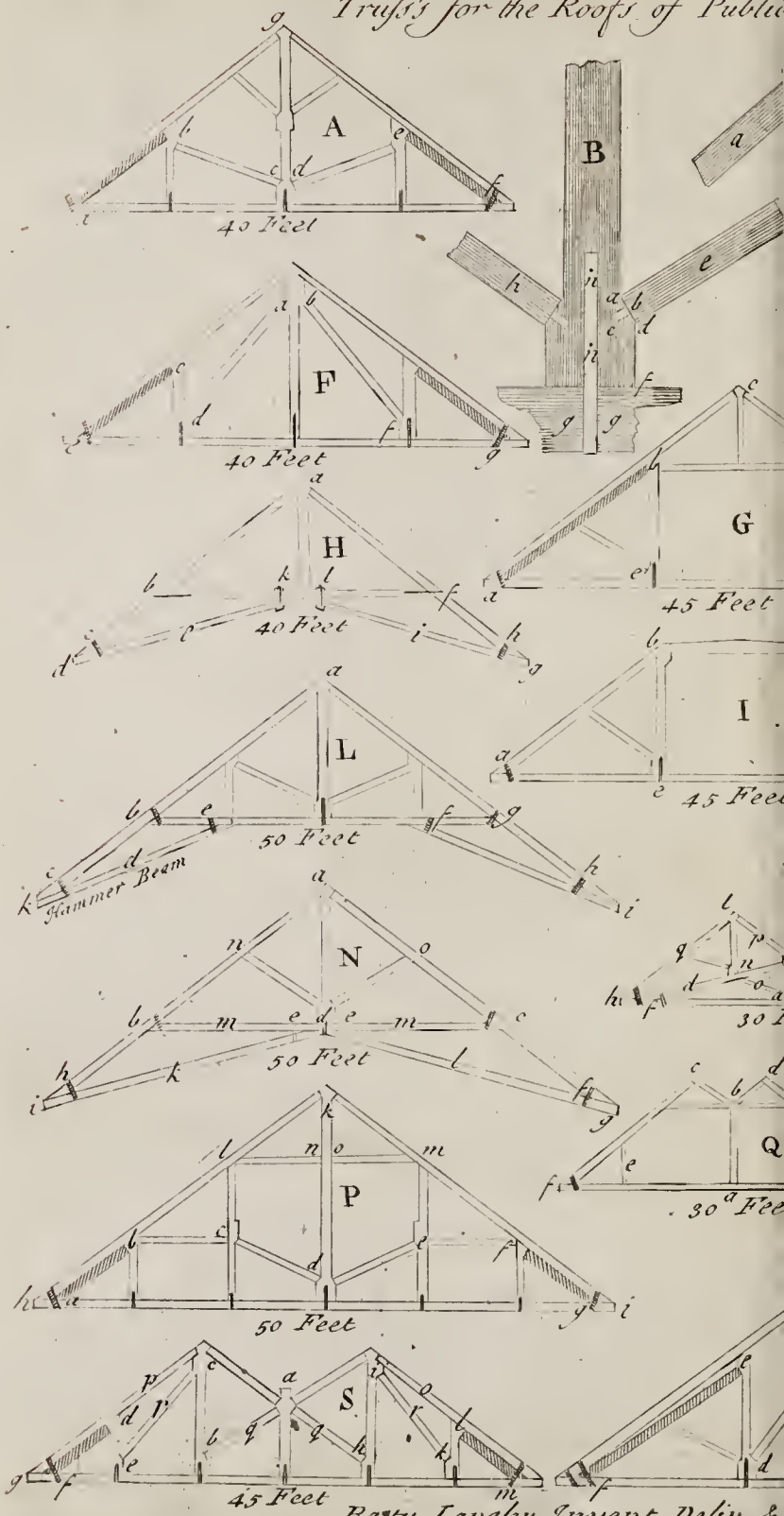
Beam 75 Feet



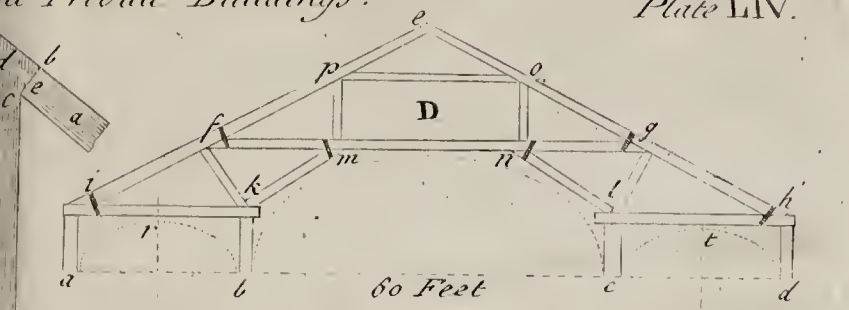
Beam 75 Feet

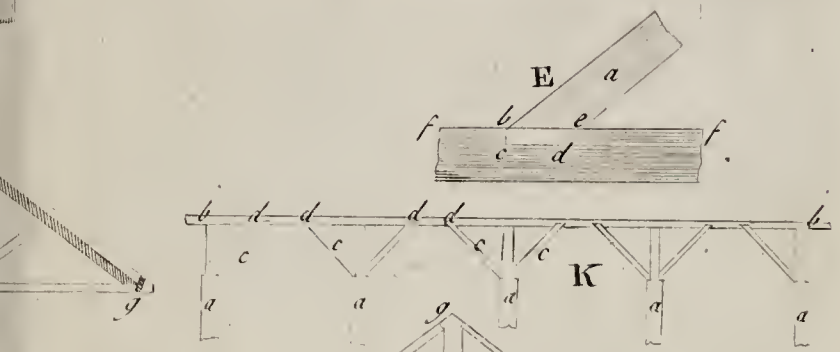
Beam 15 Feet

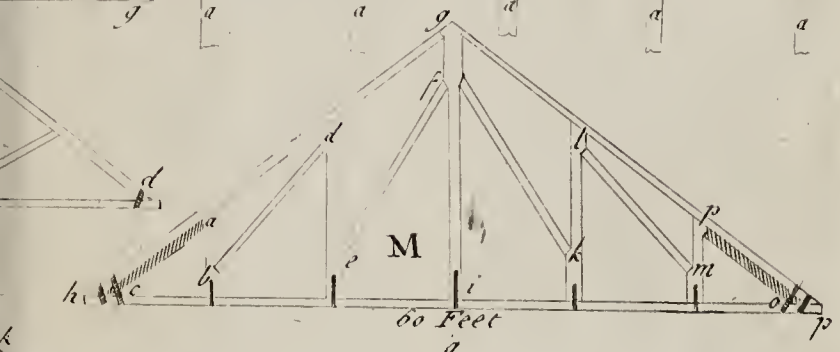
Truſs's for the Roofs of Public

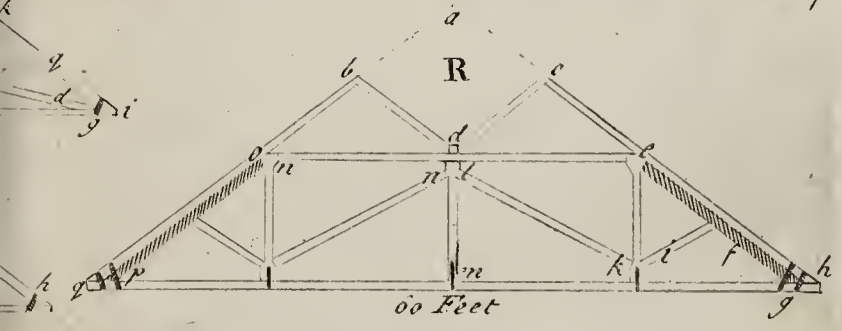


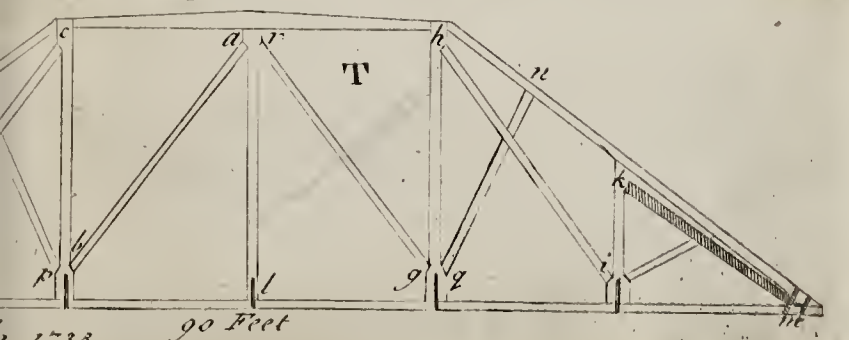
Batty Langley Invent. Delin. &





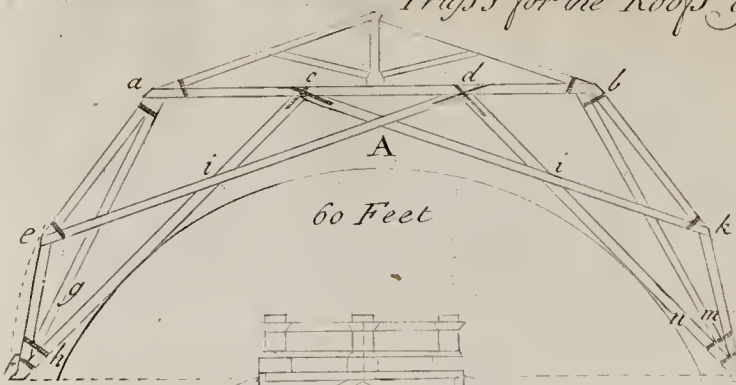


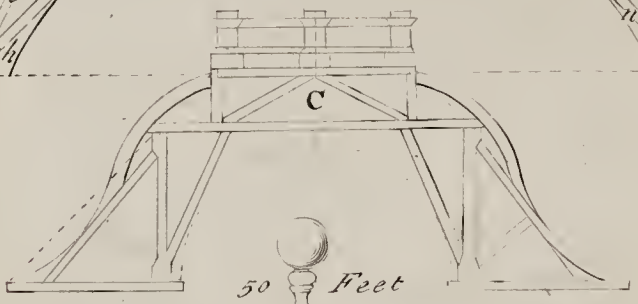


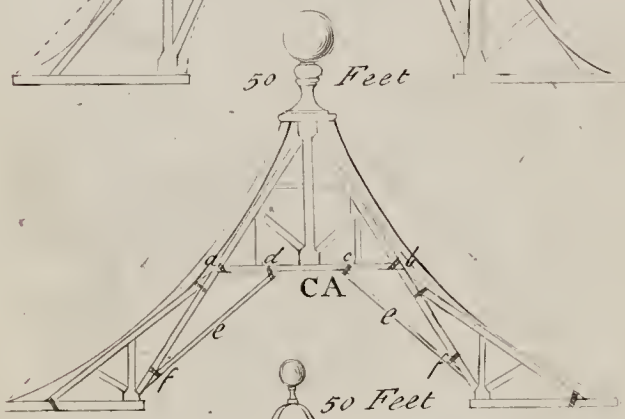


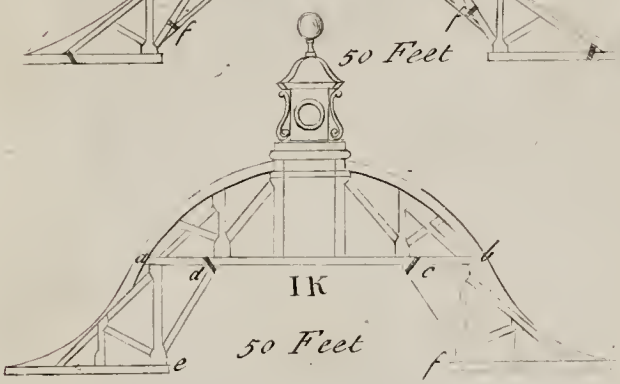
1738.

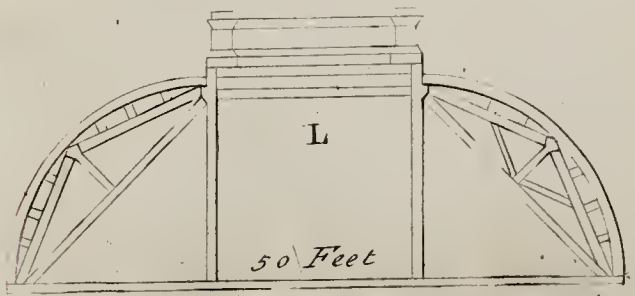
Truſſes for the Roofs of Ch

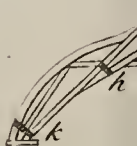




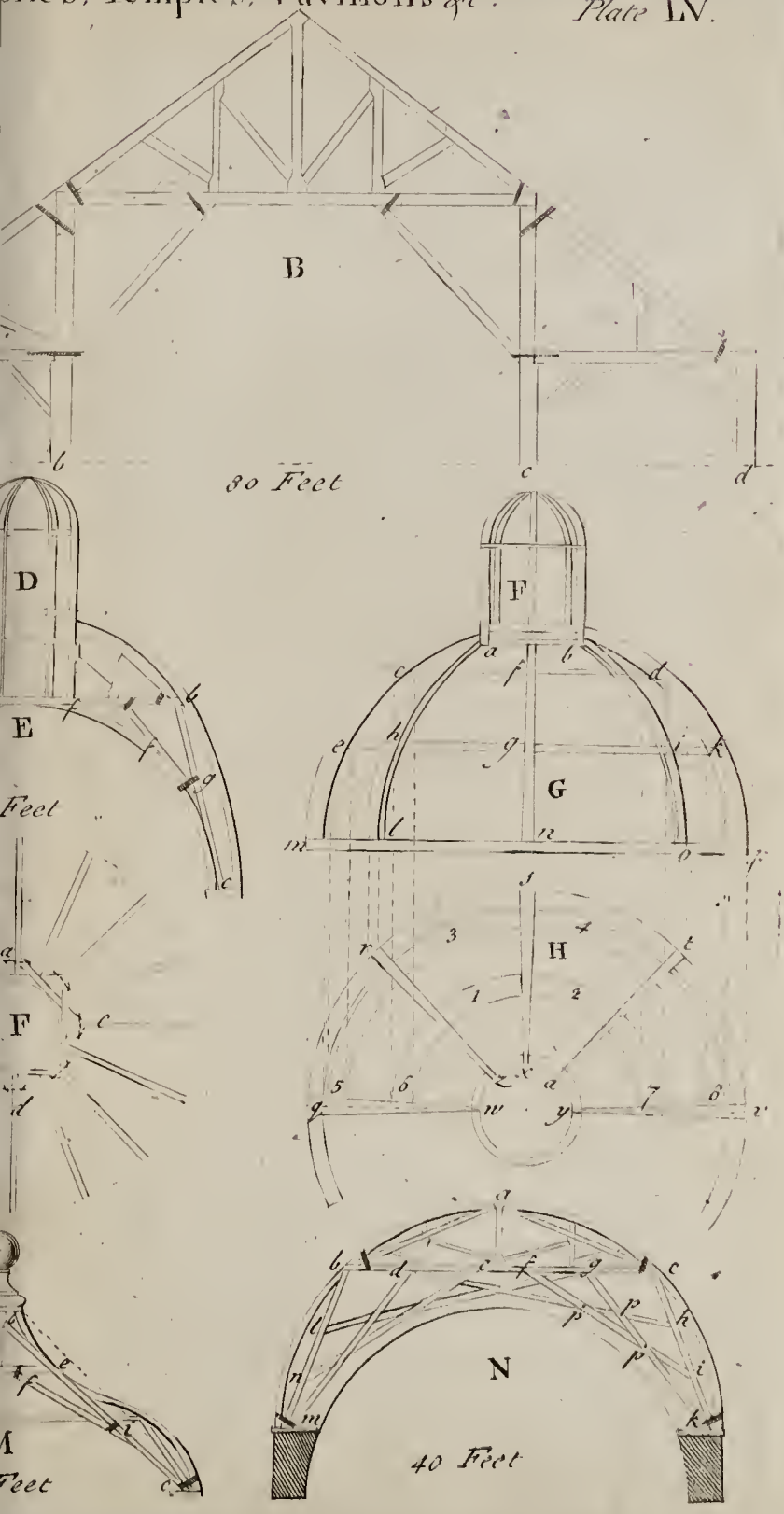








Batty Langley Invent. Delin. & Sculp. 1738.


B
80 Feet
D
E
Feet
F
M
Feet
F
G
H
N
40 Feet

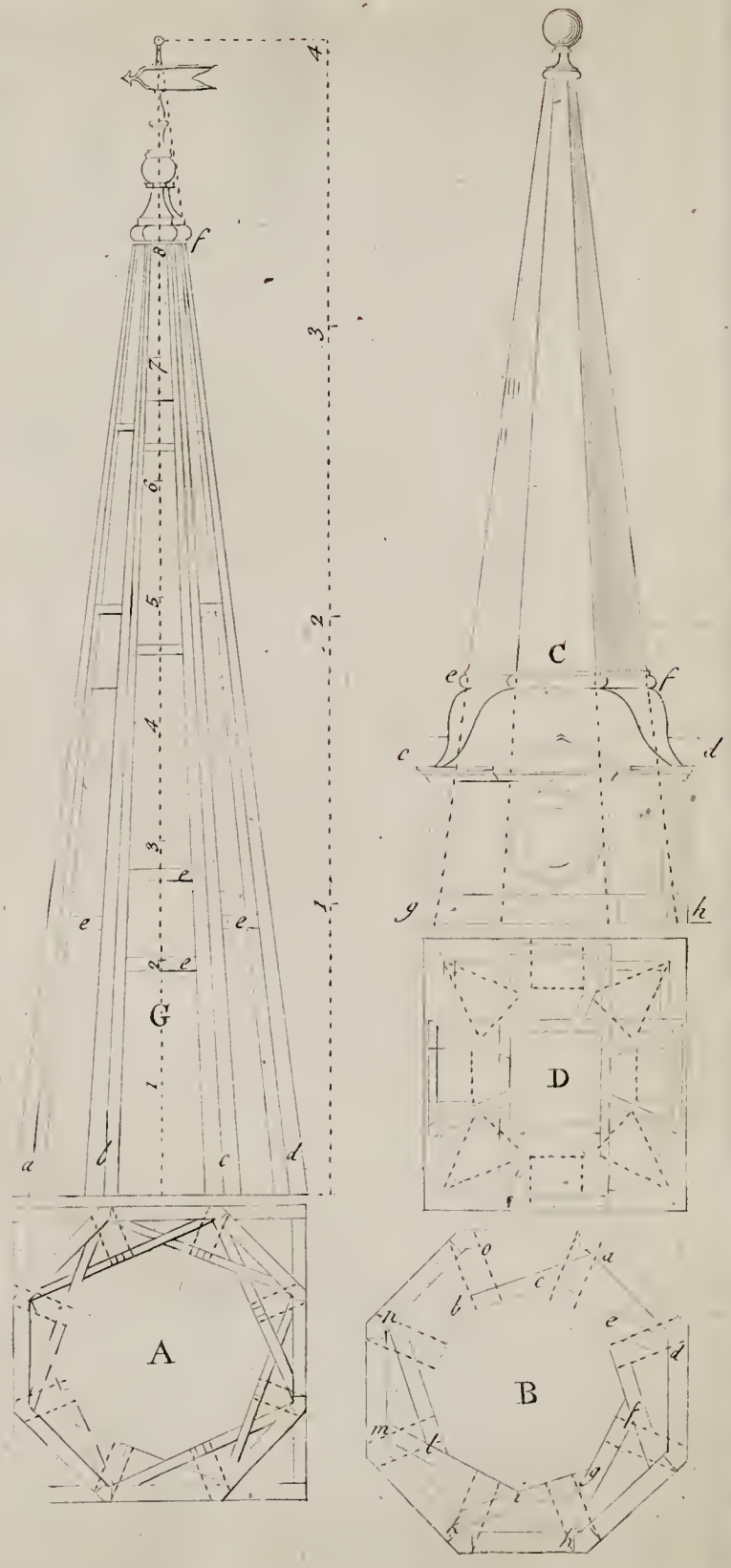
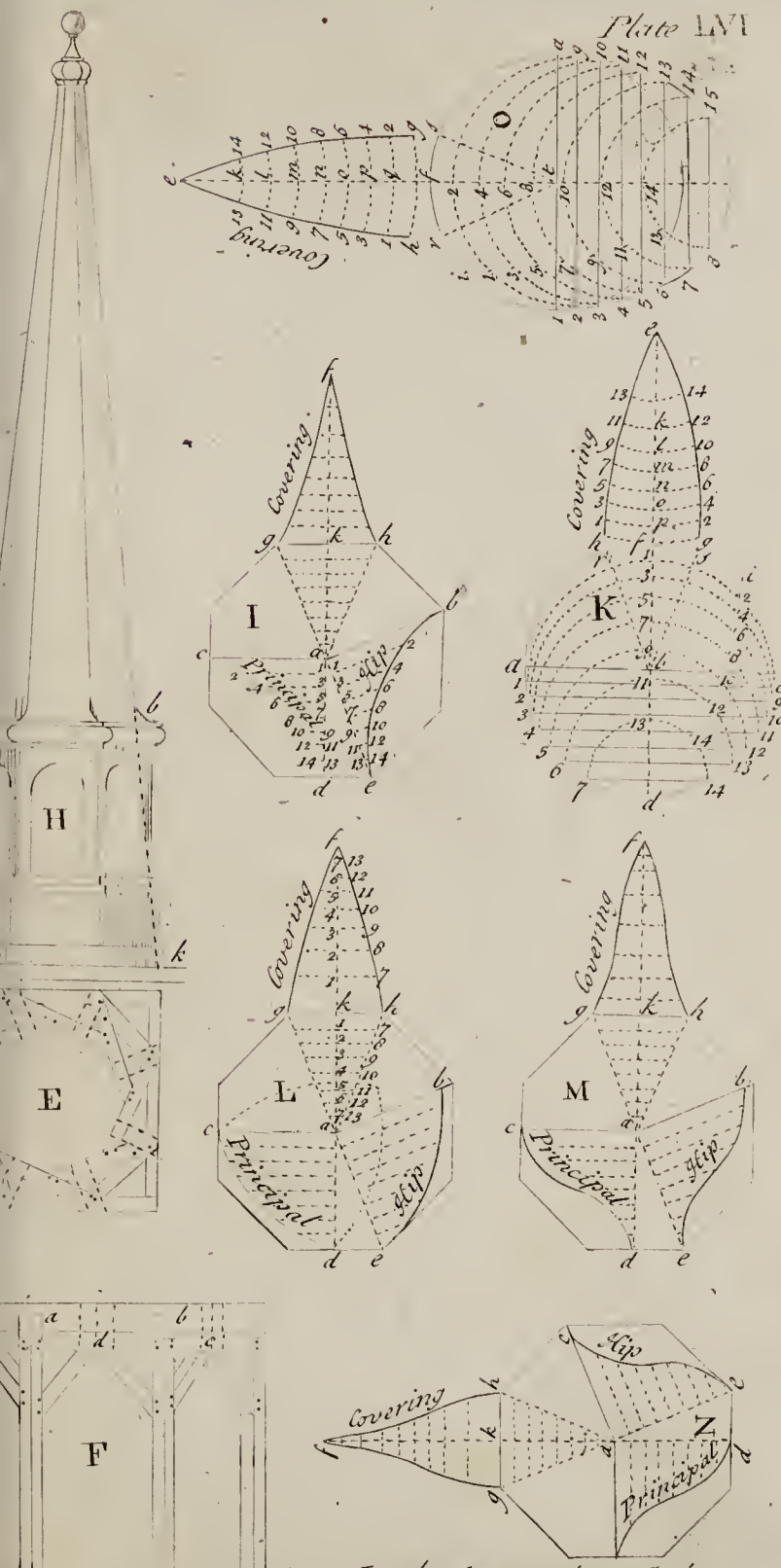
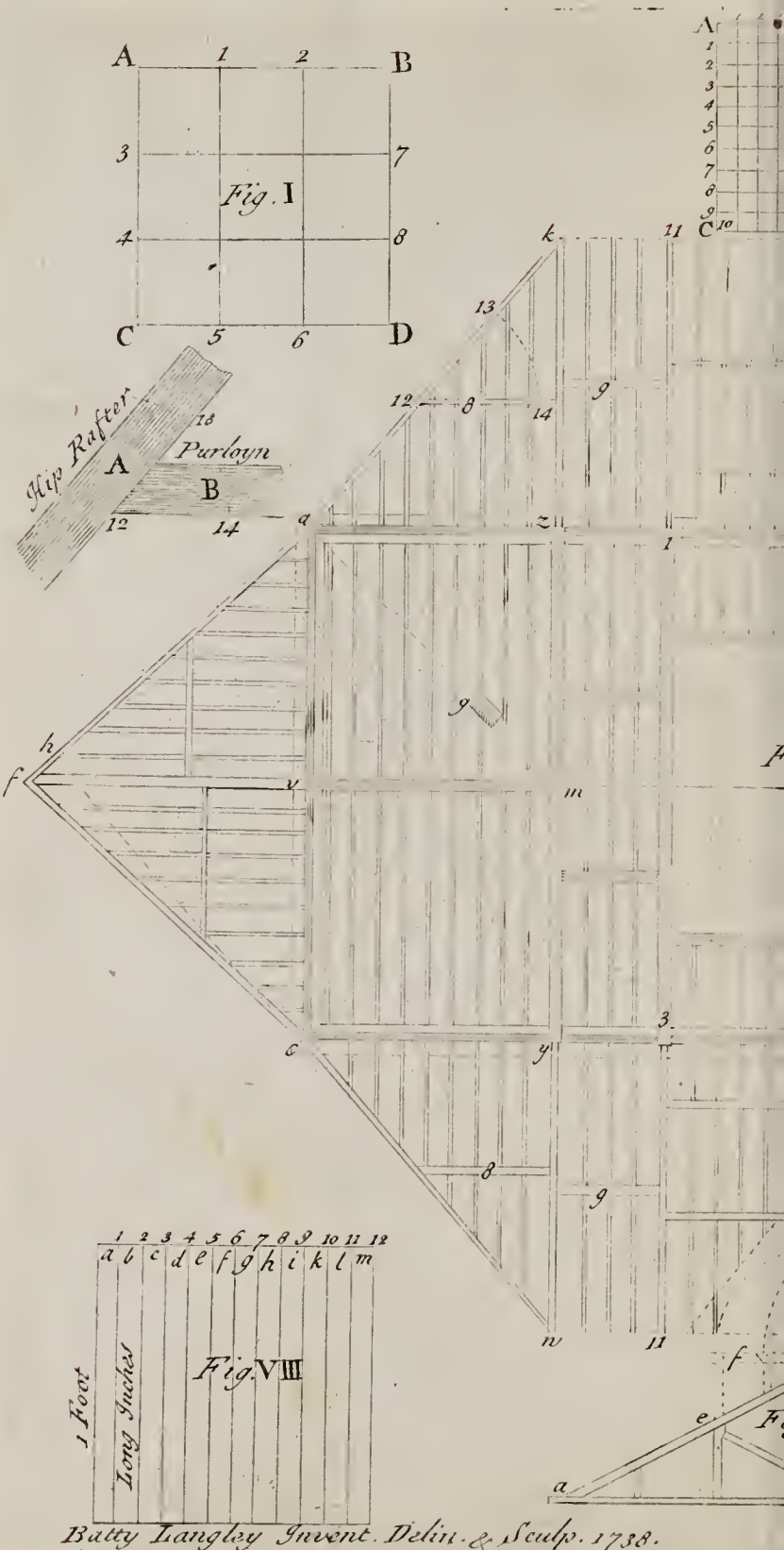

f
4
3
2
1
e
e
e
e
e
G
a
b
c
d
A
C
e
f
c
d
g
h
D
B
n
o
a
b
c
e
d
f
m
l
k
i
g
h

Plate LVI



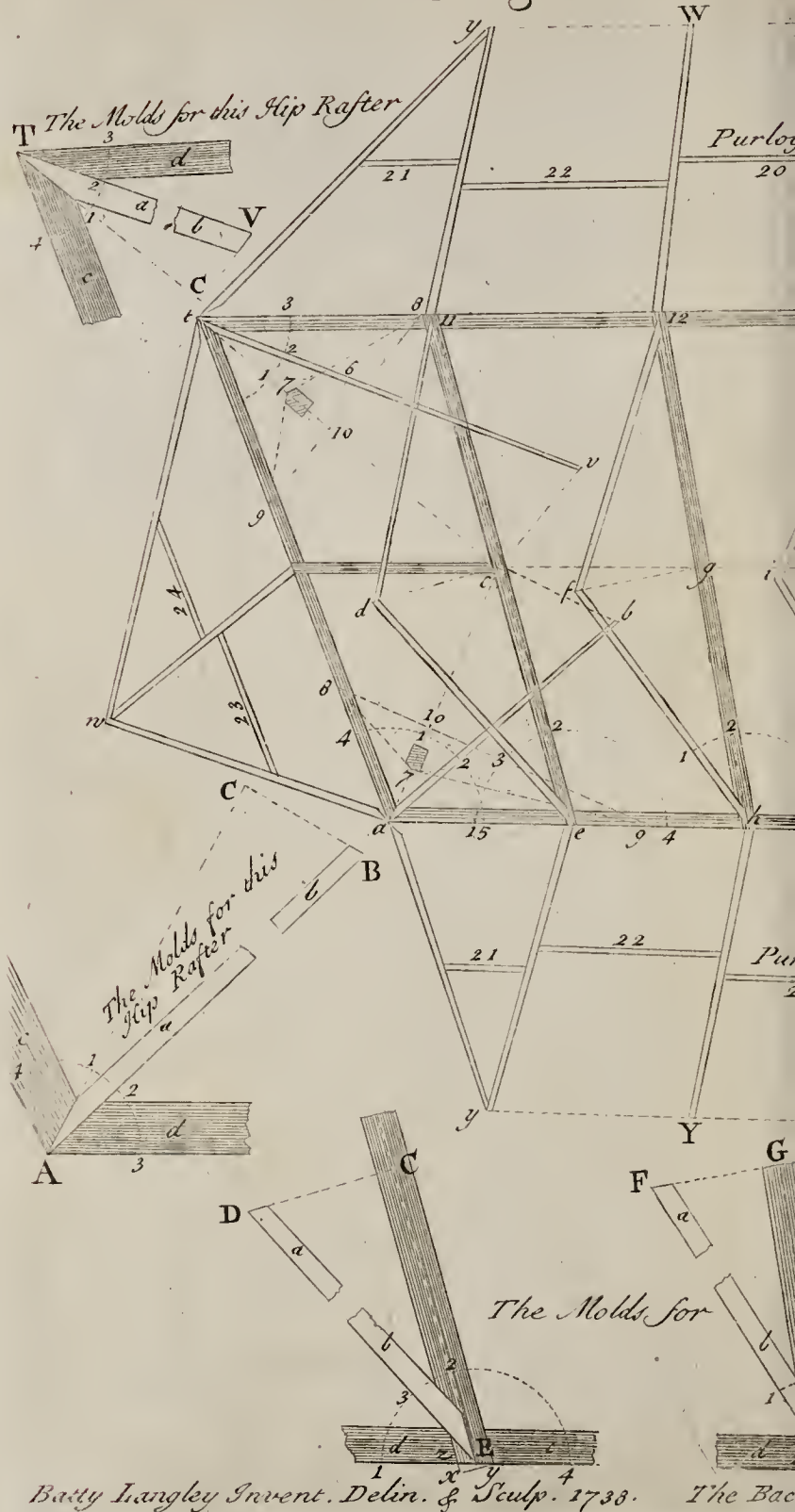
Batty Langley Invent. Delin. & Sculp. 1738.



Batty Langley Invent. Delin. & Sculp. 1738.

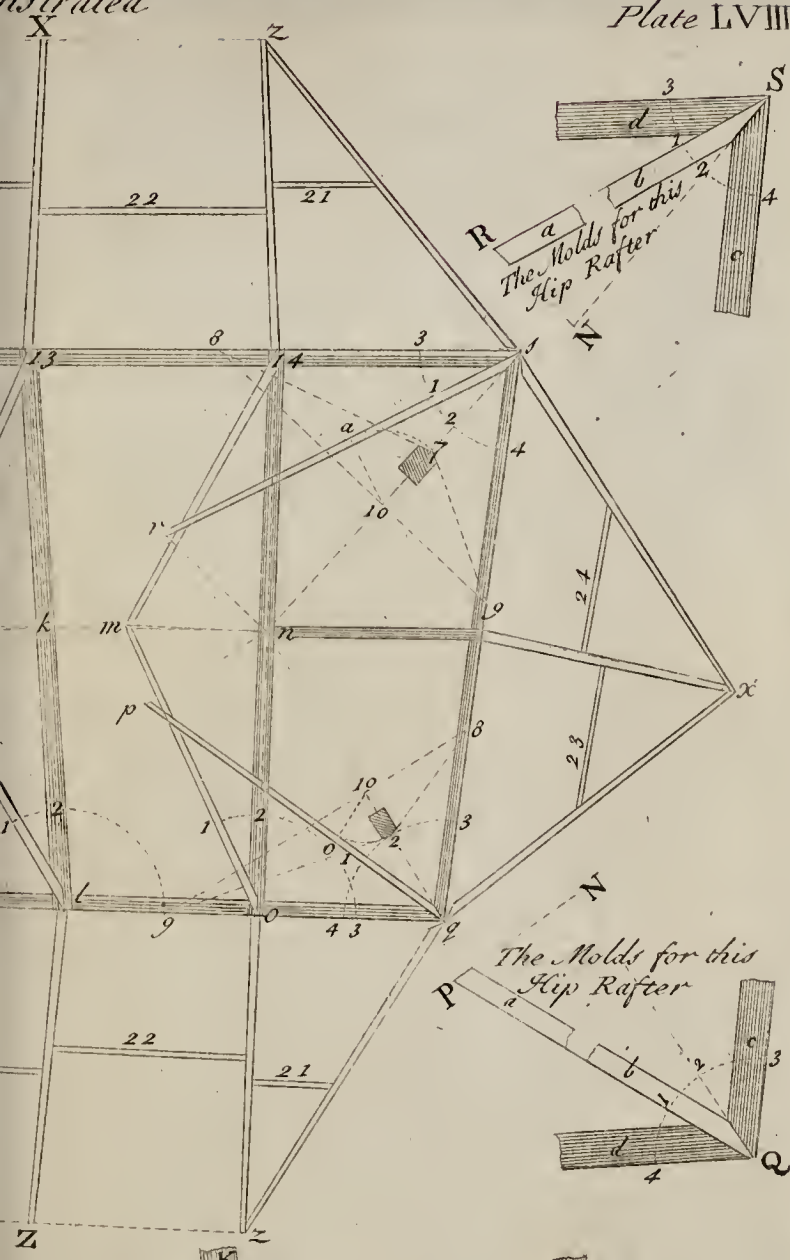
Plate LVII

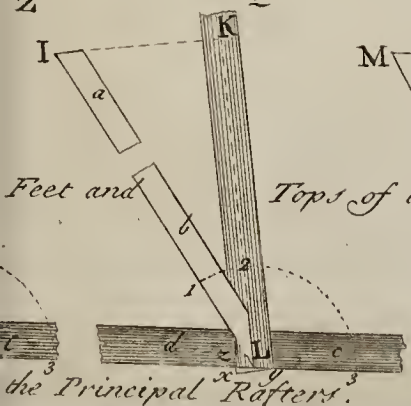
A
B
C
D
Fig. III
Molds for y Foot & Top of a Hip Rafter
Fig. V
Molds for y Foot & Top of a Principal Rafter
Fig. VI
Fig. IX


Irregular Roofs Da
The Molds for this Hip Rafter
Purlo
The Molds for this Hip Rafter
Pur
The Molds for
Batty Langley Invent. Delin. & Sculp. 1738.
The Bac

nstrated

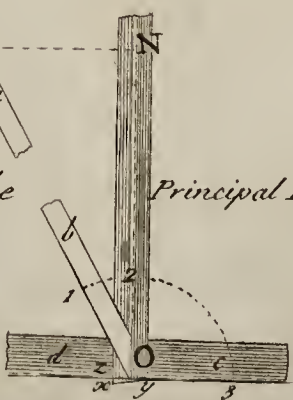
Plate LVIII.

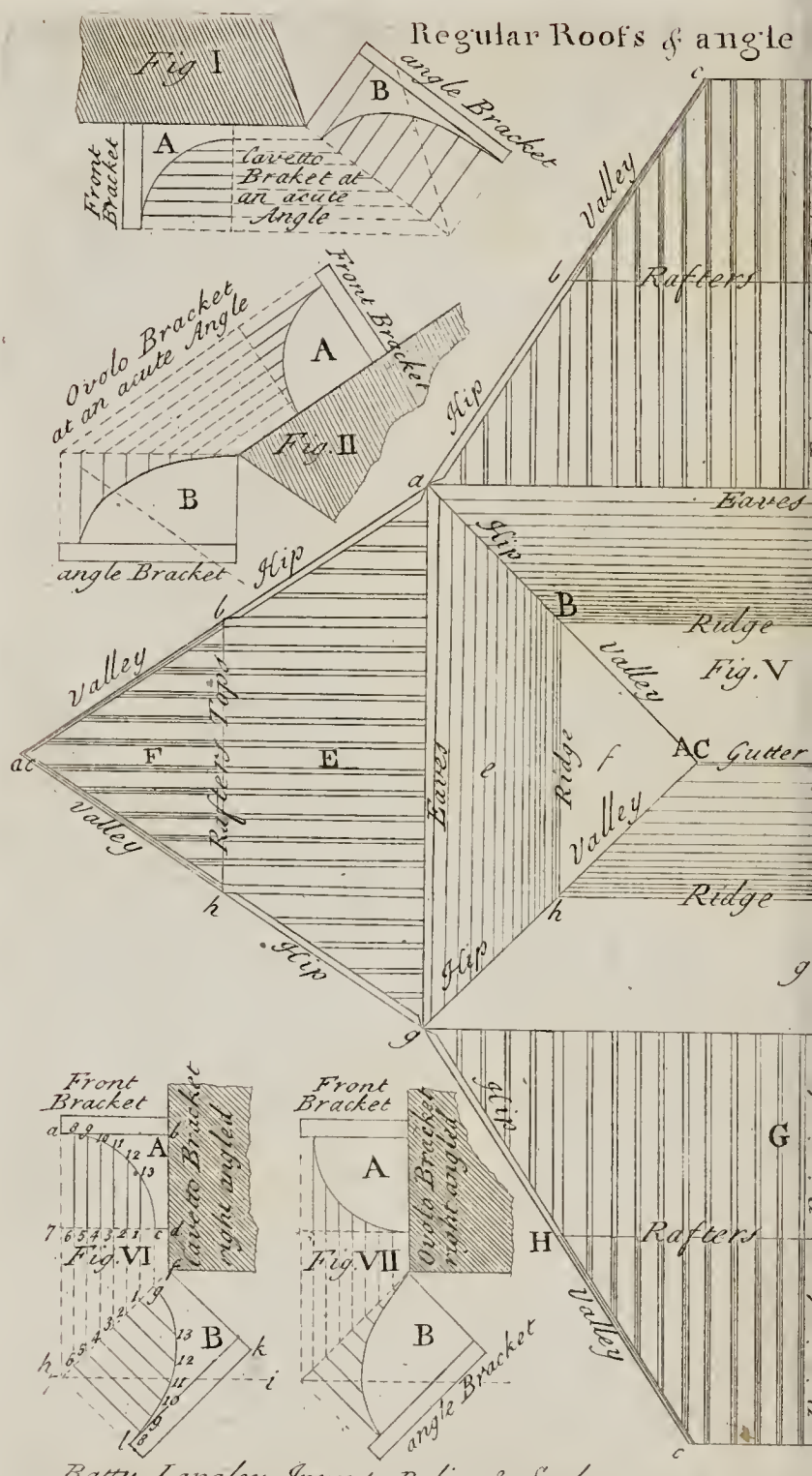




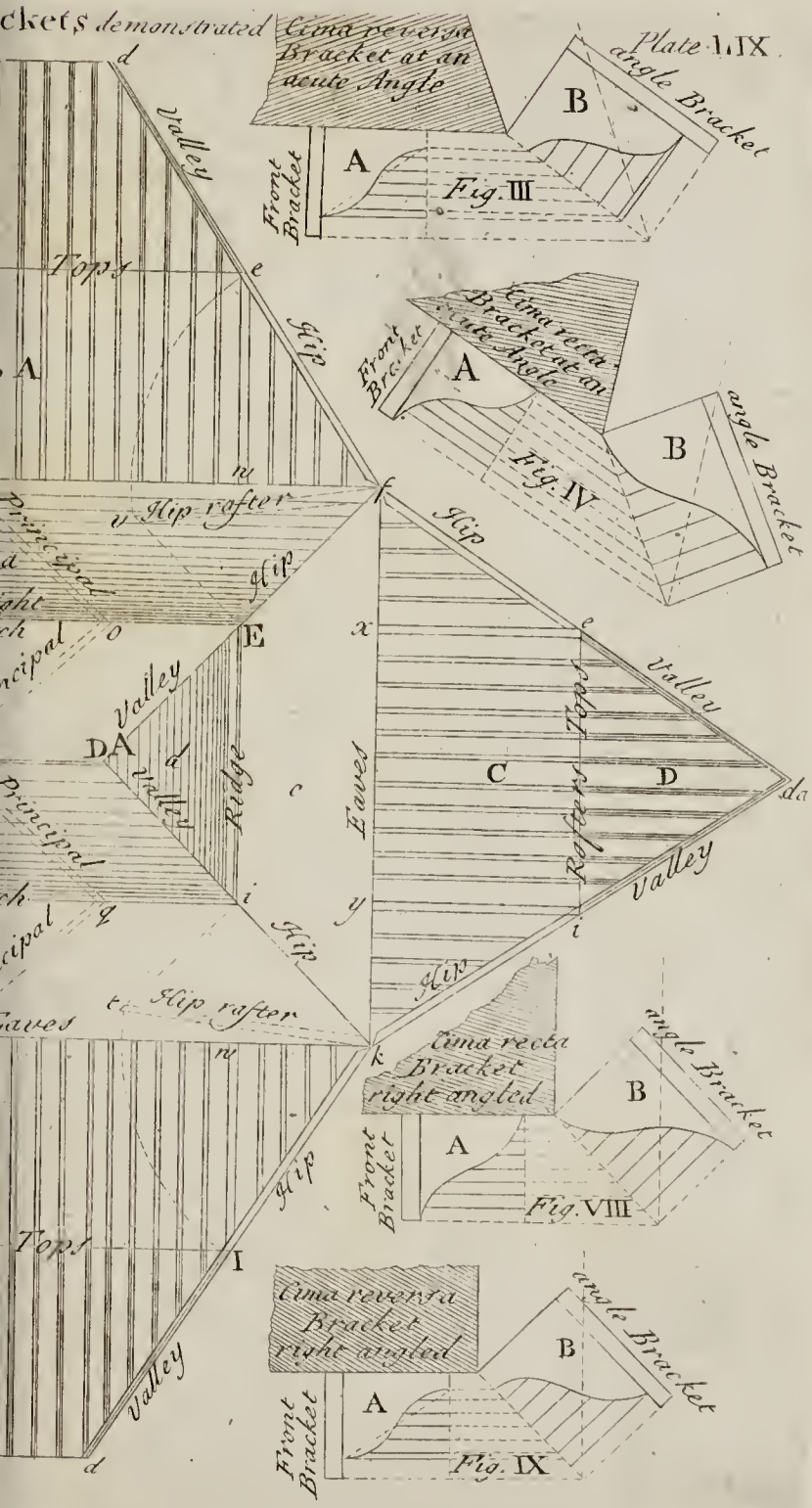
Feet and Tops of the Principal Rafters

the Principal Rafters.

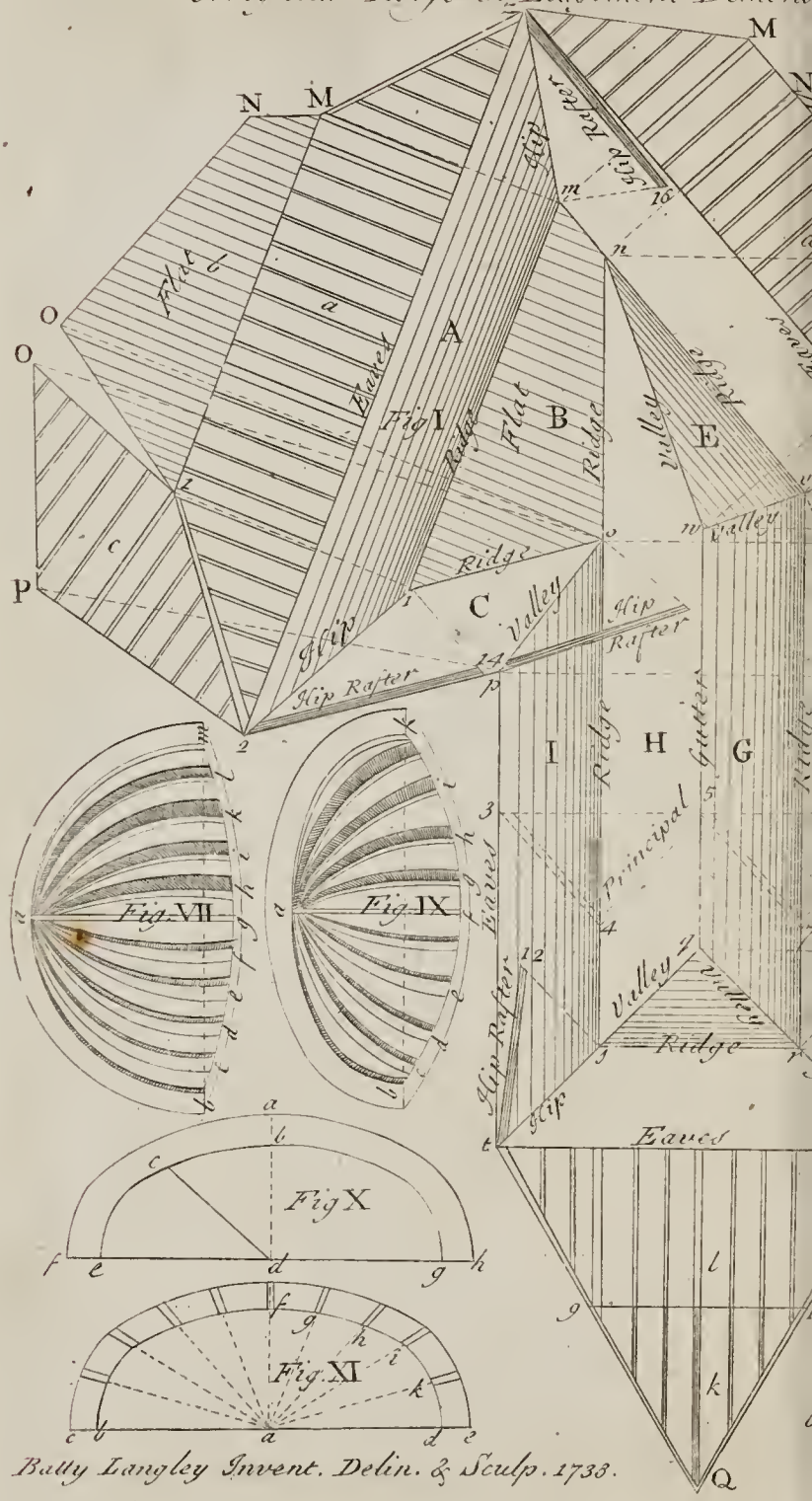



Regular Roofs & angle
Fig I
A
B
Front Bracket
angle Bracket
Carretto Braket at an acute Angle
Ovolo Bracket at an acute Angle
Front Bracket
Fig. II
angle Bracket
Hip
Valley
Rafters
Eaves
Ridge
Fig. V
AC Gutter
F
E
G
H
Front Bracket
Carretto Bracket more angled
Fig. VI
Ovolo Bracket more angled
Fig. VII
Batty Langley Invent. Delin. & Sculp. 1738.

ckets demonstrated



Irregular Roofs in Ledgement Demons



Bally Langley Invent. Delin. & Sculp. 1733.

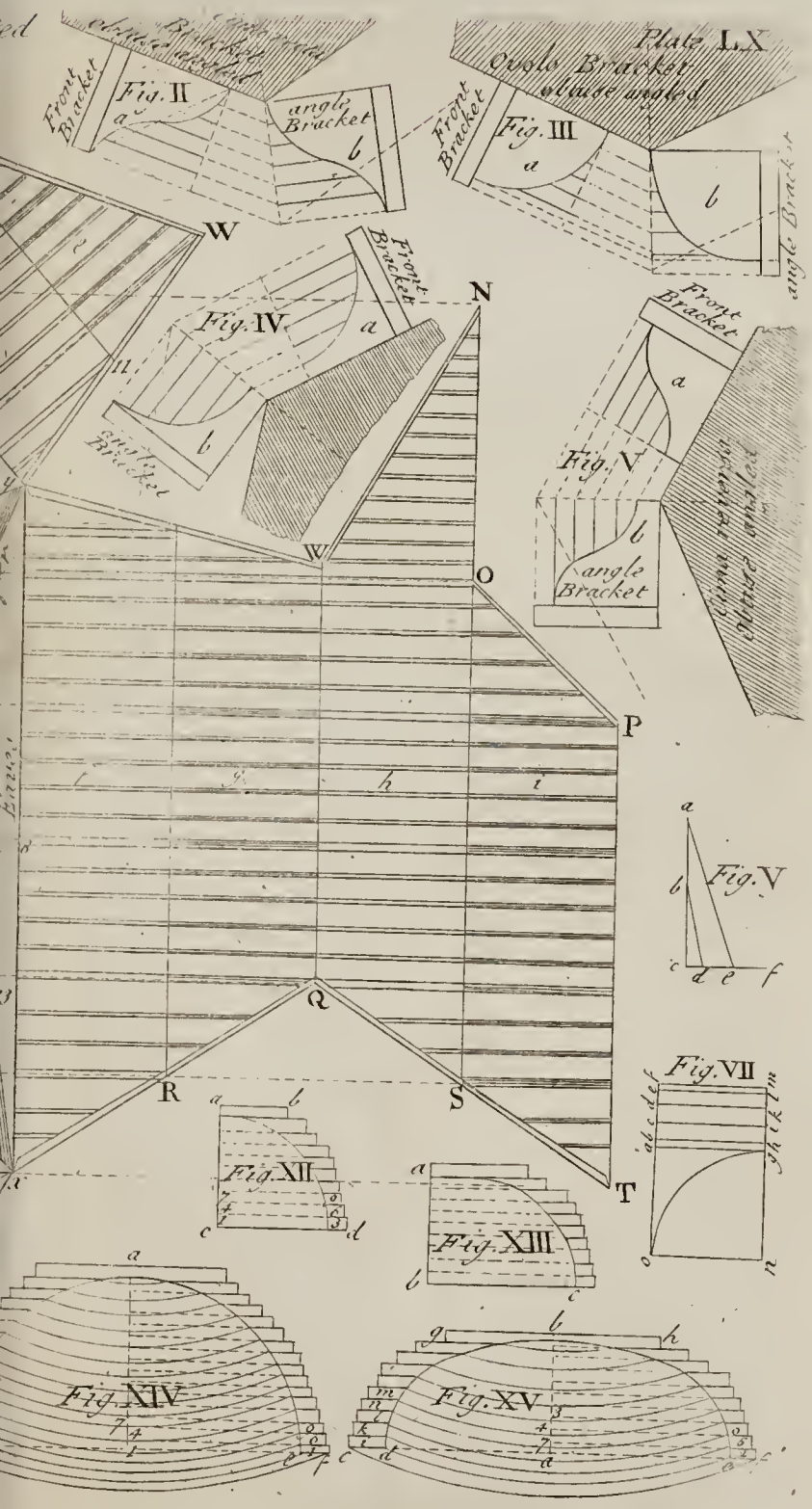


Plate LX
Ovolo Bracket
obtuse angled
Front Bracket
Fig. II
a
angle Bracket
b
Fig. III
Fig. IV
Fig. V
W
N
O
P
Q
R
S
T
Fig. VII
Fig. XII
Fig. XIII
Fig. XIV
Fig. XV

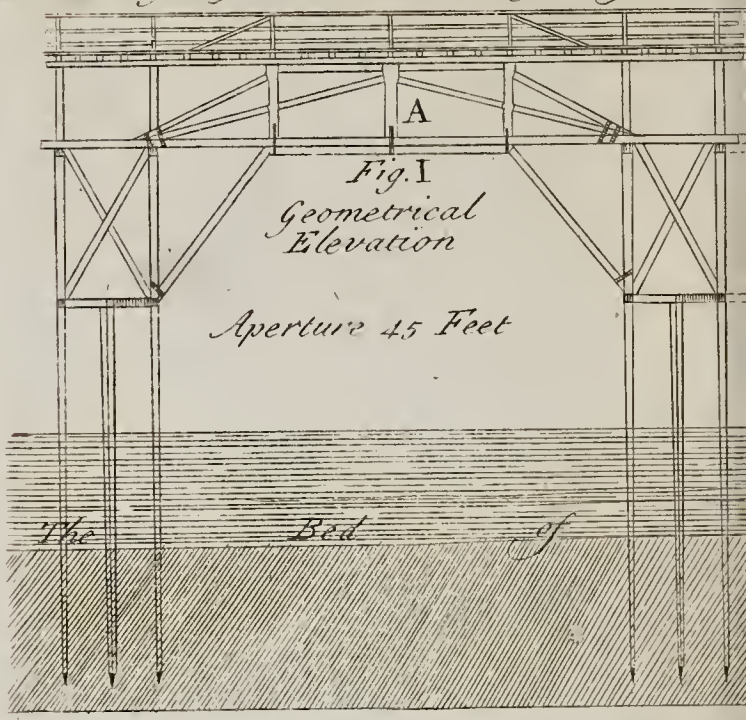


Fig. I
Geometrical
Elevation

Aperture 45 Feet

The Bed of

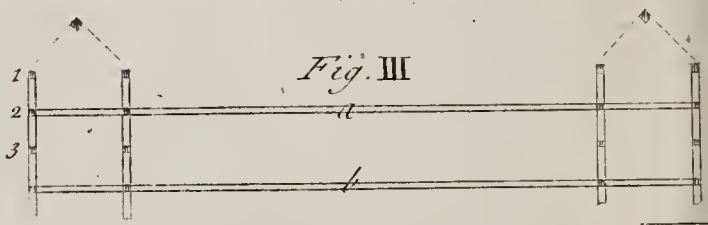


Fig. III

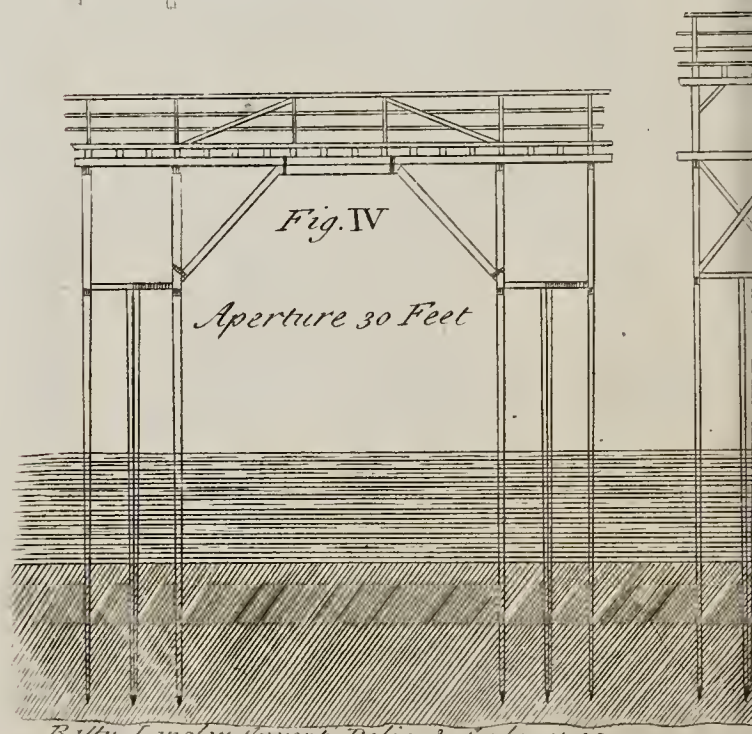
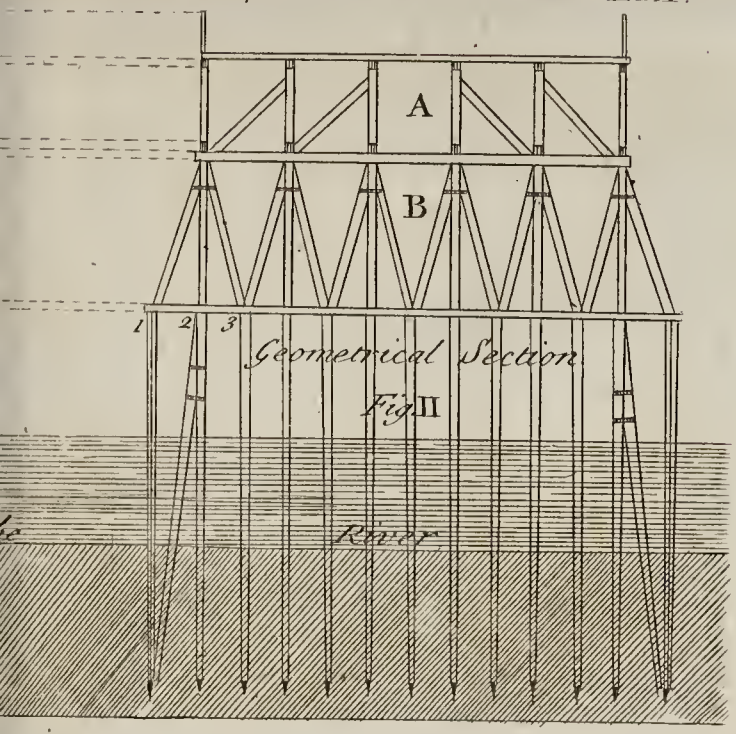


Fig. IV

Aperture 30 Feet

Bally Langlow Invent. Delin. & Sculp. 1738.


A
B
1
2
3
Geometrical Section
Fig. II
River

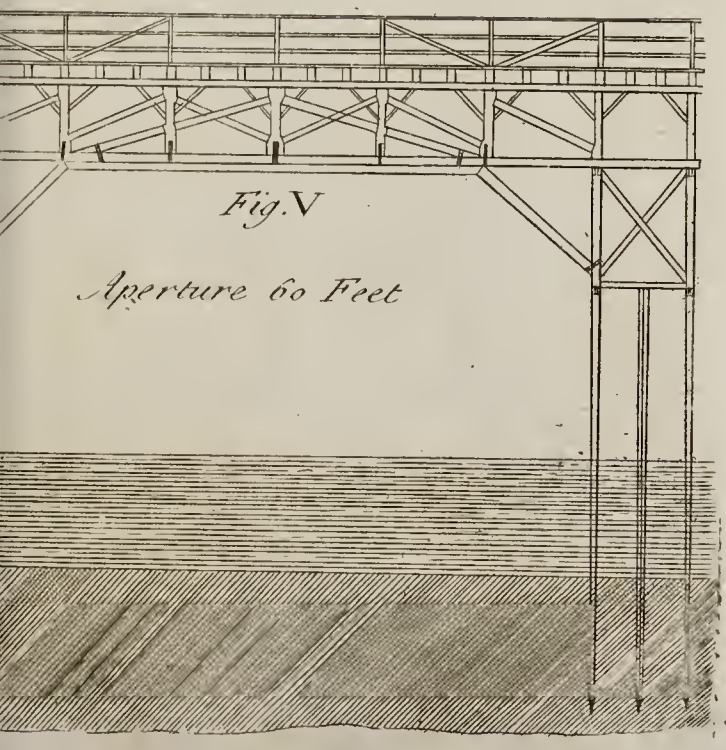
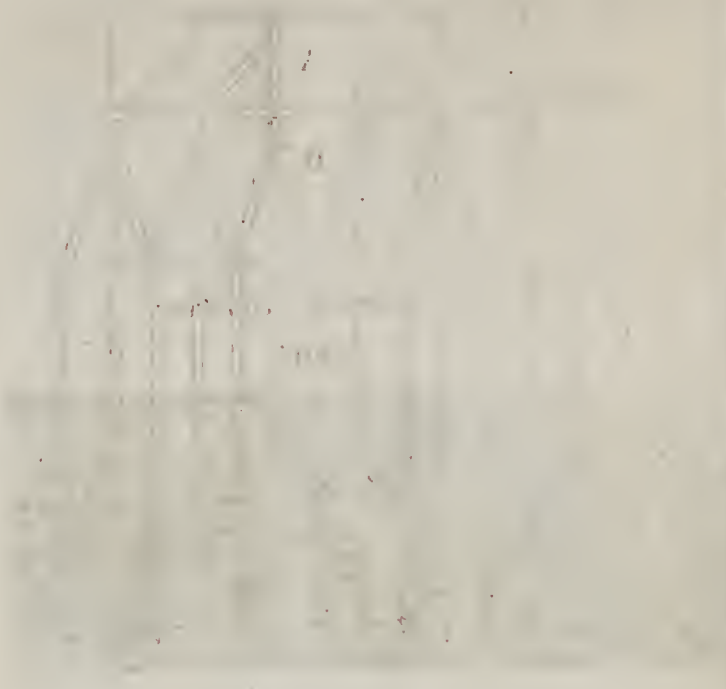
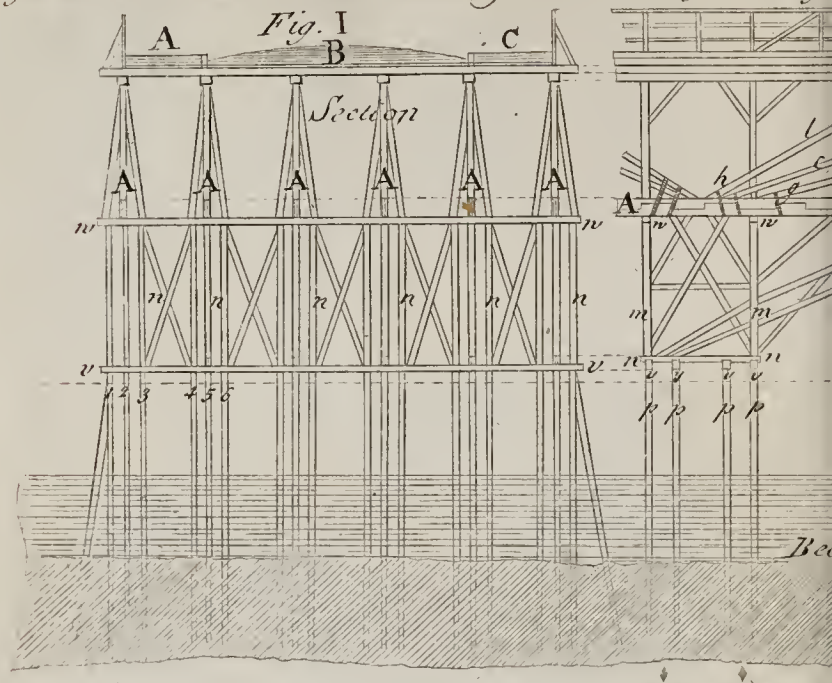
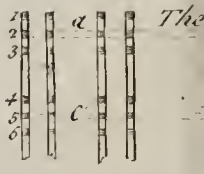


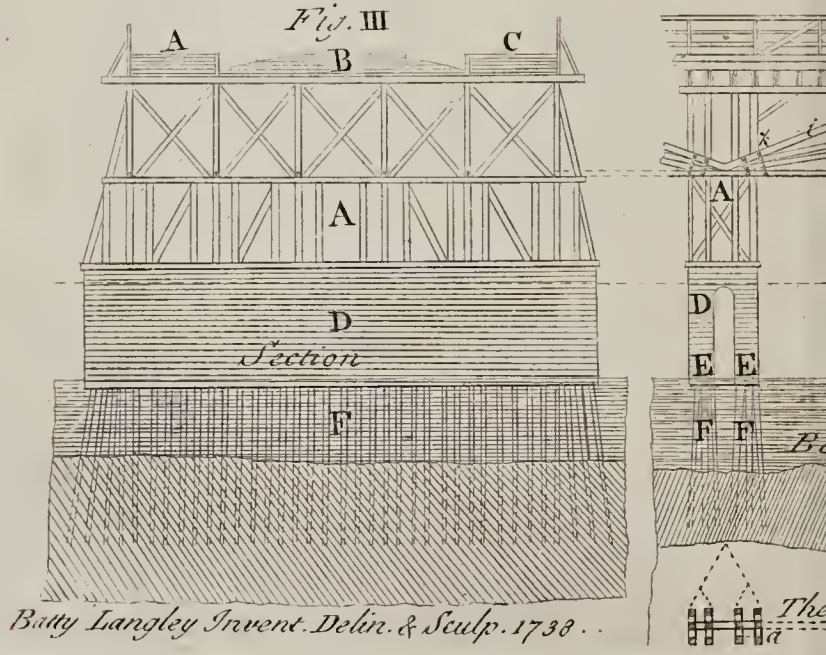
Fig. V
Aperture 60 Feet



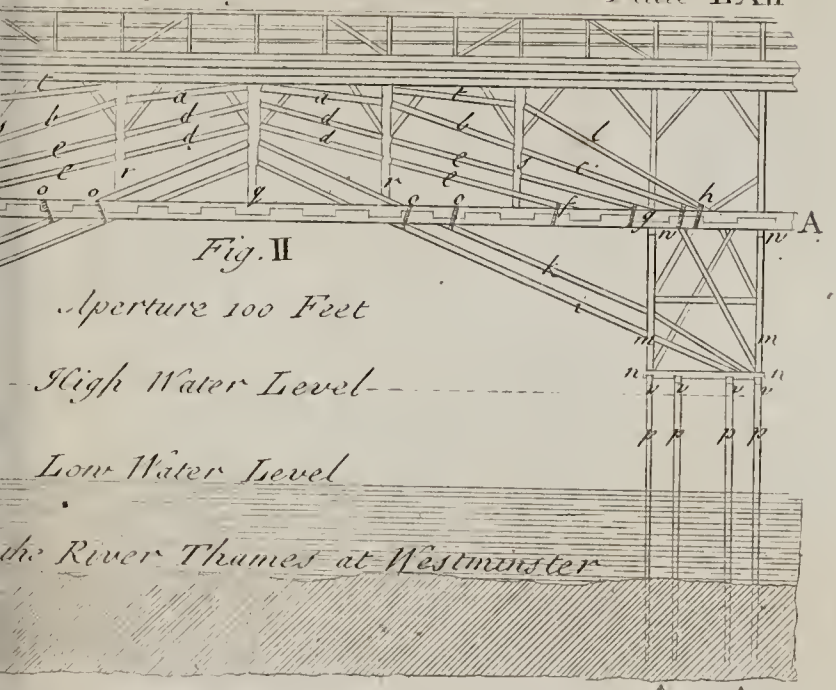
Geometrical Elevations & Sections, of Timber Bridges Design

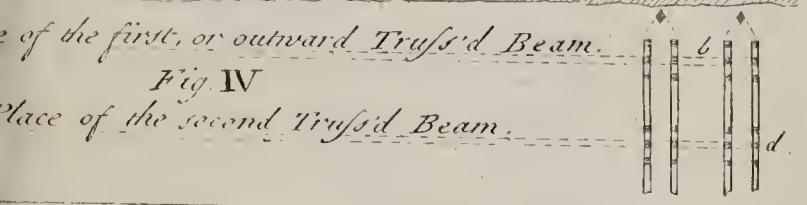


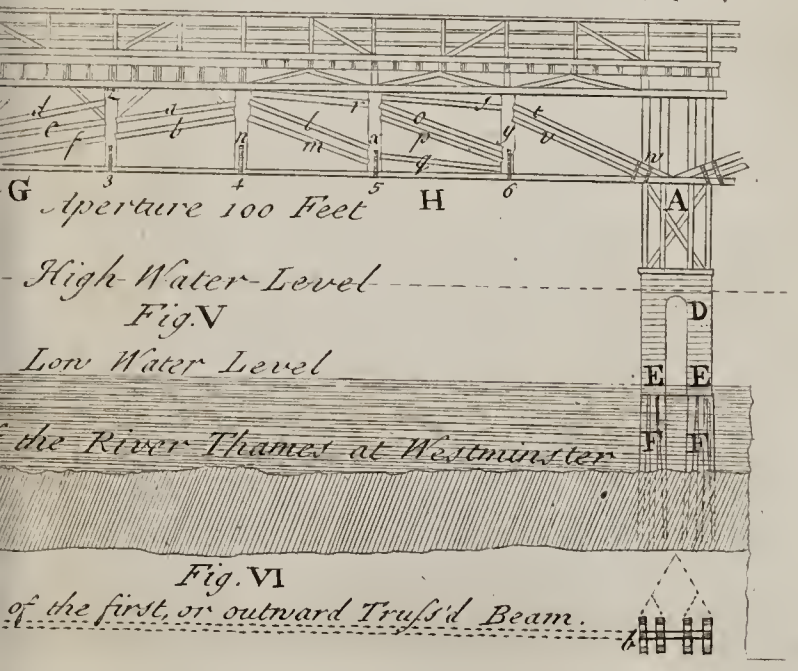




Batty Langley Invent. Delin. & Sculp. 1738.


A
Fig. II
Aperture 100 Feet
High Water Level
Low Water Level
the River Thames at Westminster


...e of the first, or outward Truss'd Beam.
Fig. IV
...place of the second Truss'd Beam.


G
Aperture 100 Feet
H
A
High Water Level
Fig. V
D
Low Water Level
E E
the River Thames at Westminster
F F
Fig. VI
...of the first, or outward Truss'd Beam.

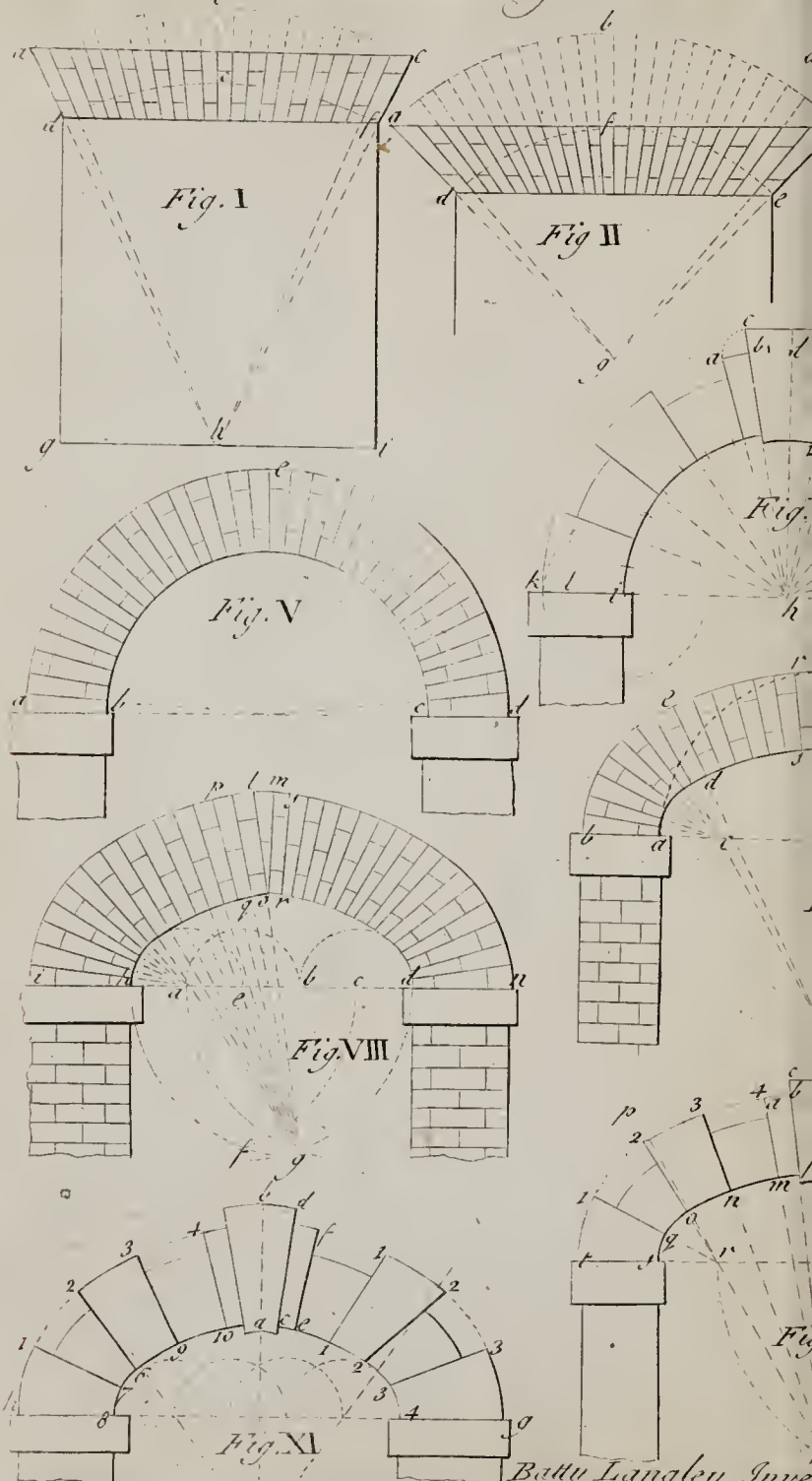


Fig. I
Fig II
Fig. V
Fig. VIII
Fig. XI

Arches

Plate LXIII.

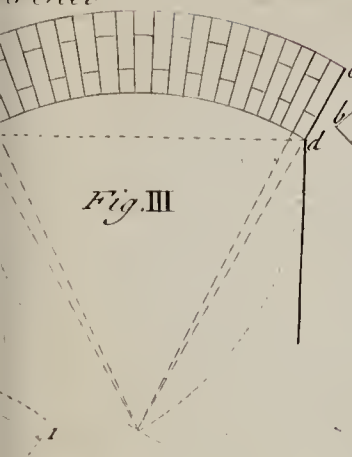


Fig. III

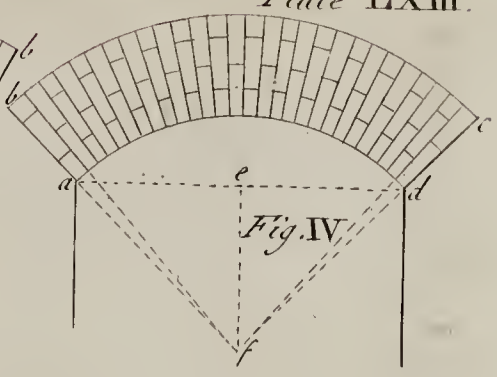
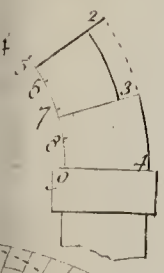


Fig. IV



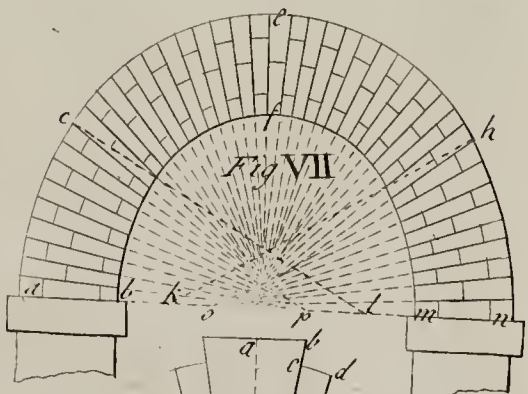
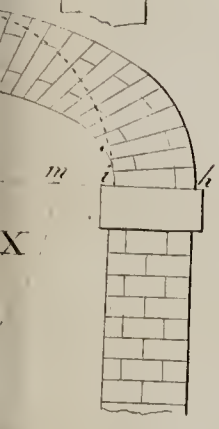


Fig. VII



X

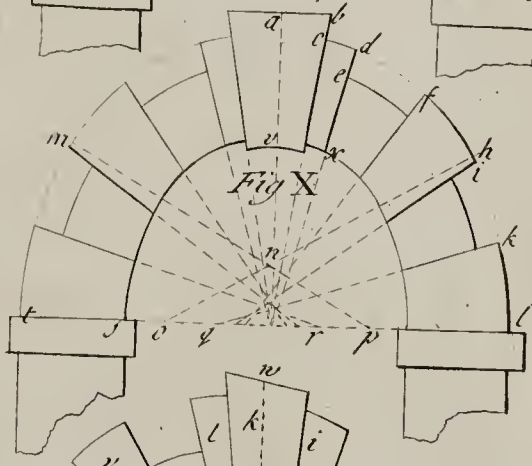
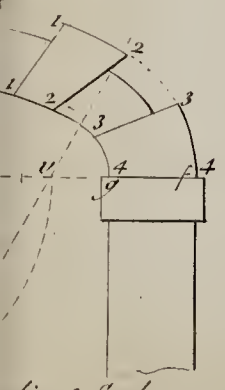


Fig. X



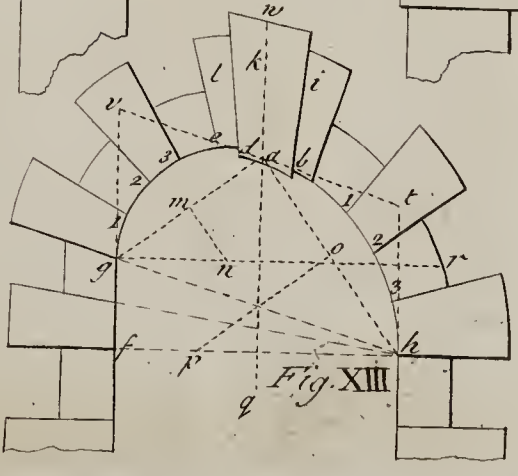
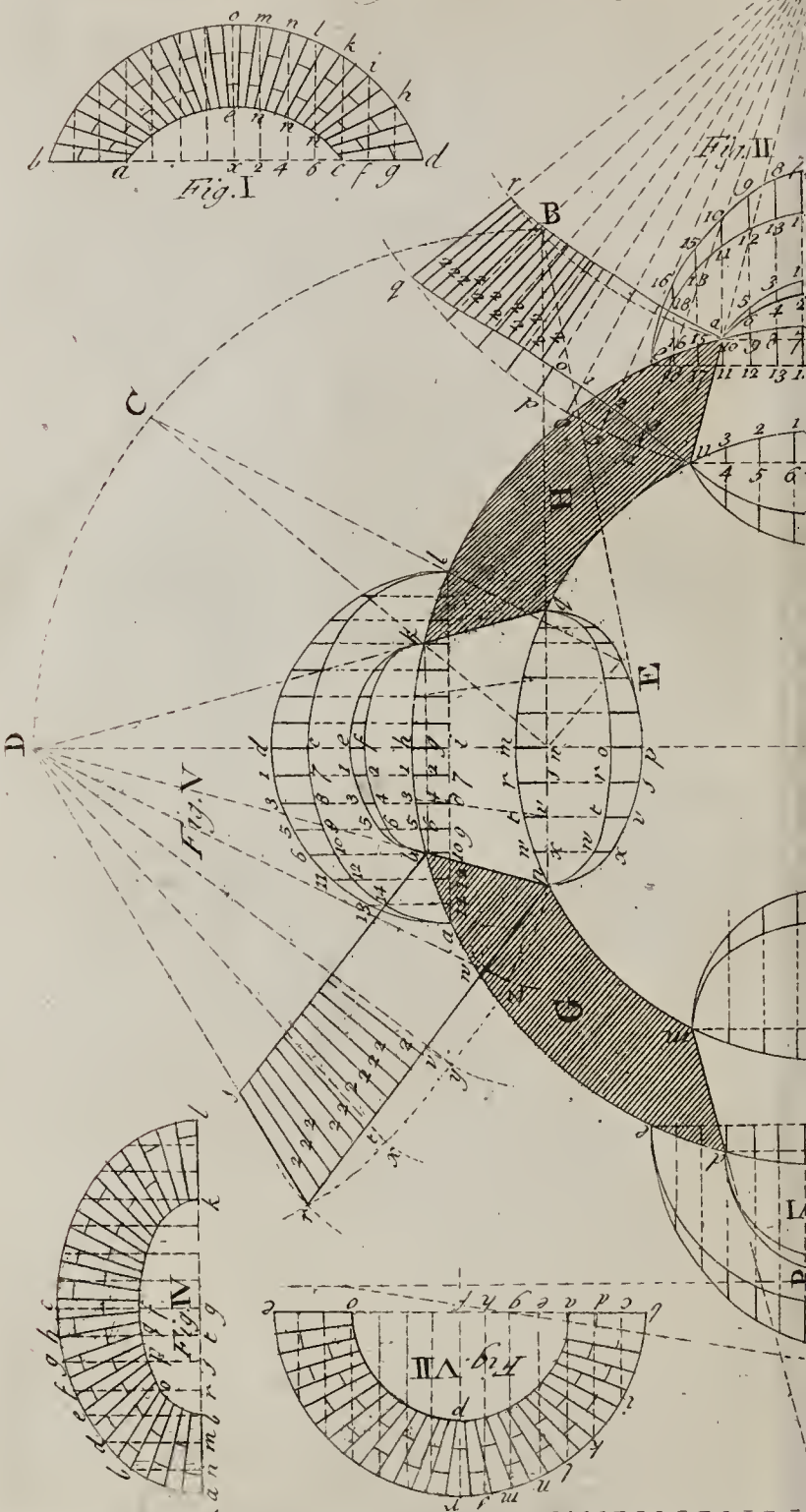


Fig. XIII

elin. & Sculp. 1733.

The Construction of Semicircular, Semi-Elliptical,
in Circular Walls, and of their Centering.



Batty Langley Invent. Delin. & Sculp. 1738.

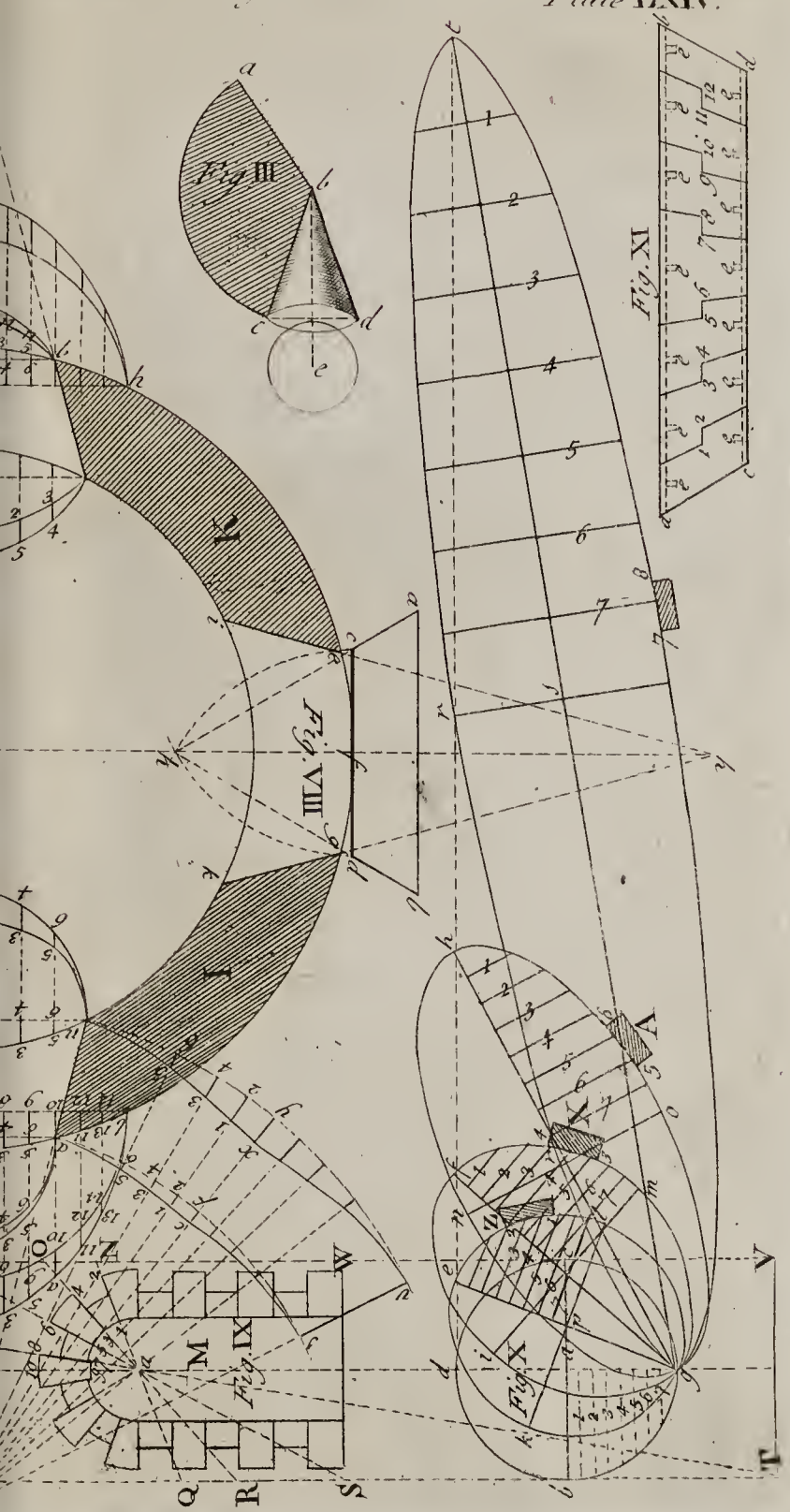
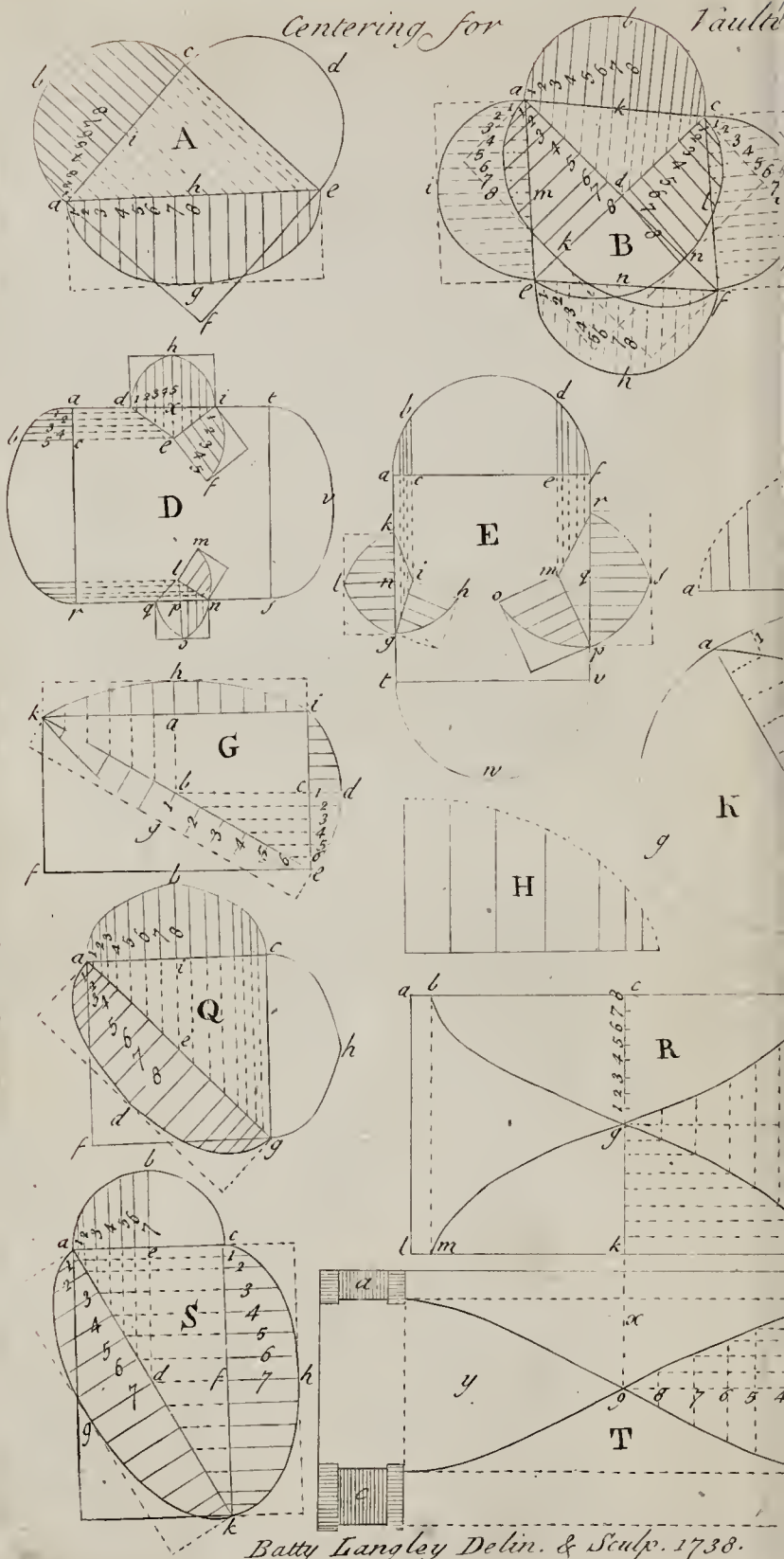
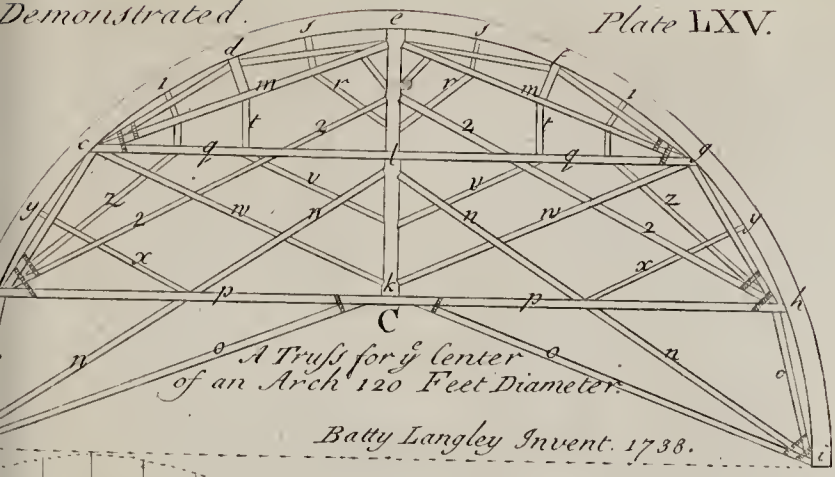


Fig. III
Fig. XI
Fig. VIII
Fig. X
I
II
M
O
Q
R
S
T
V



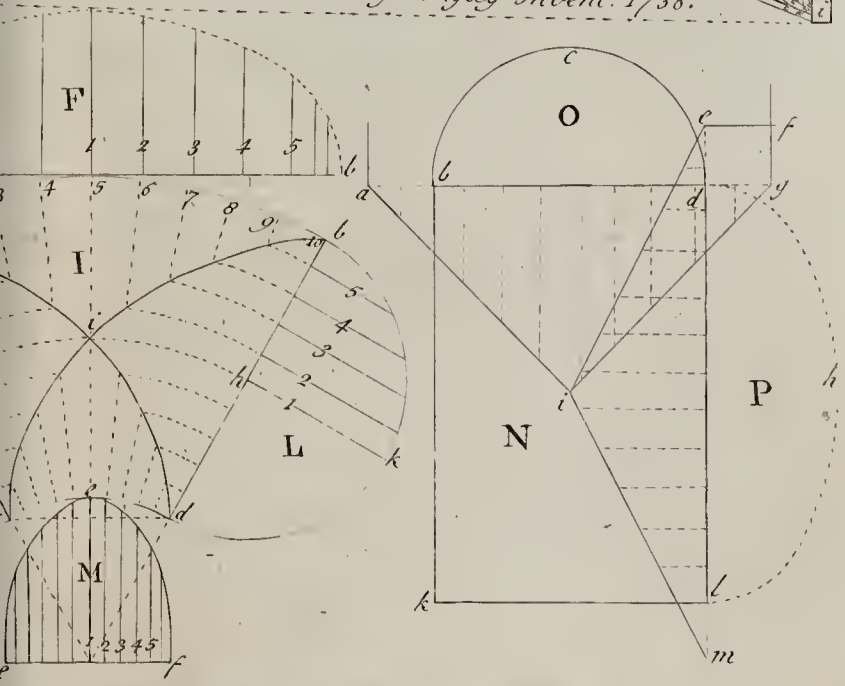
Batty Langley Delin. & Sculp. 1738.

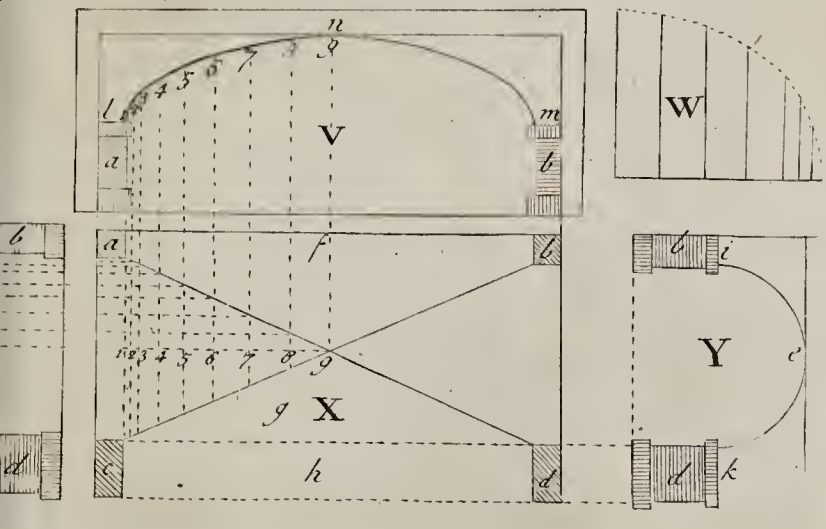


C

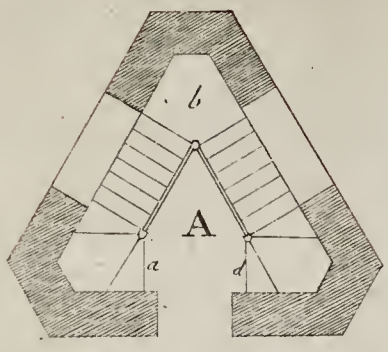
A Truss for y^e center of an Arch 120 Feet Diameter.

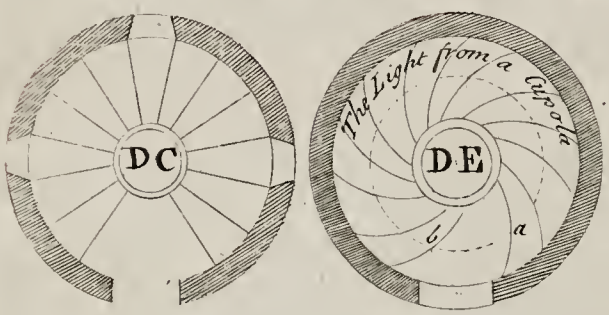
Batty Langley Invent. 1738.

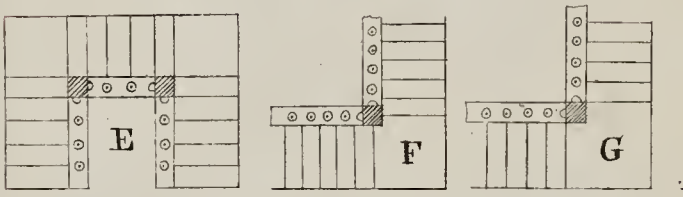


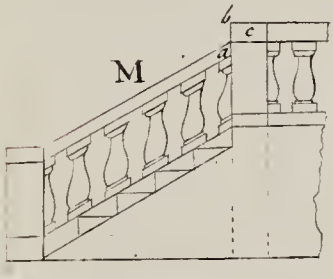


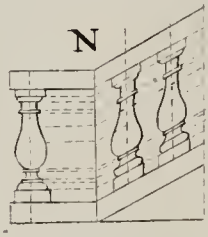
Plans and

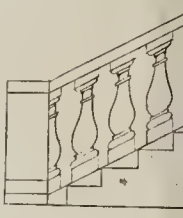


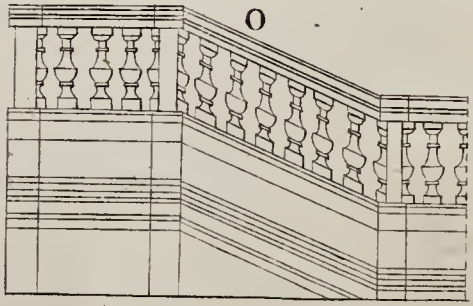


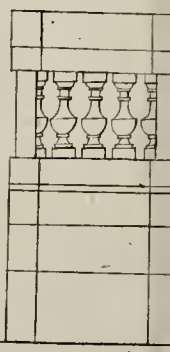




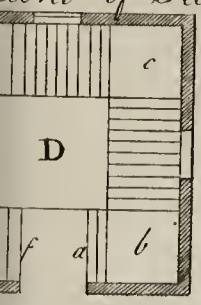


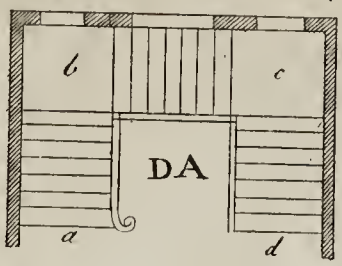


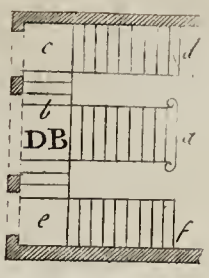


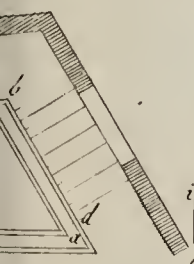


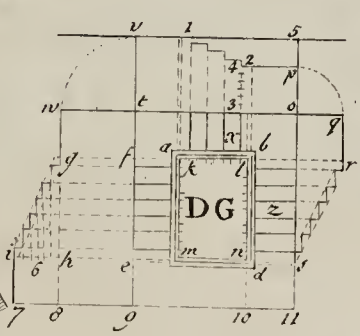
Batty Langley Delin. & Sculp. 1738.

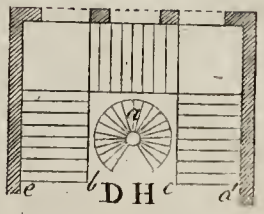

D
c
f
a
b

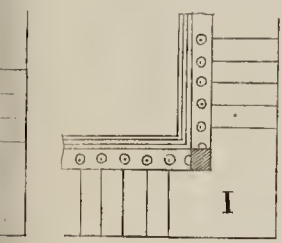

DA
b
c
a
d

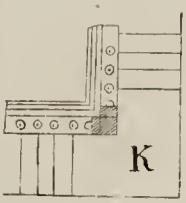

DB
c
d
b
a
e
f

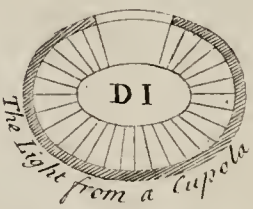

b
d
a

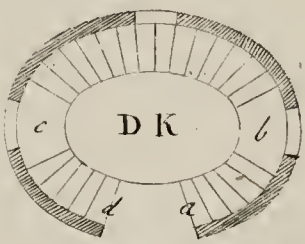

DG

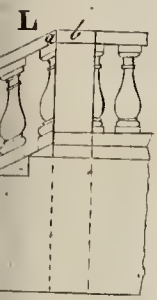

DH
e
b
c
d

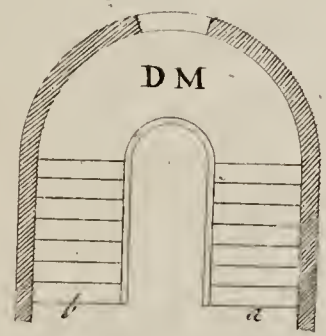

I

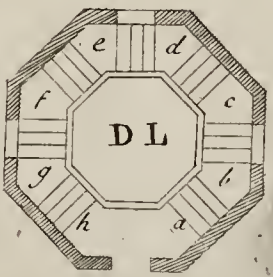

K

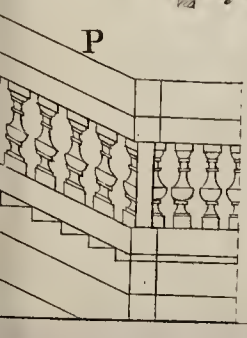

DI
The Light from a Cupola

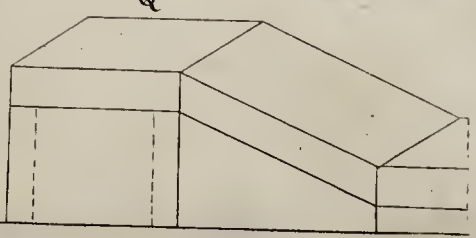

DK
c
b
d
a


L
b

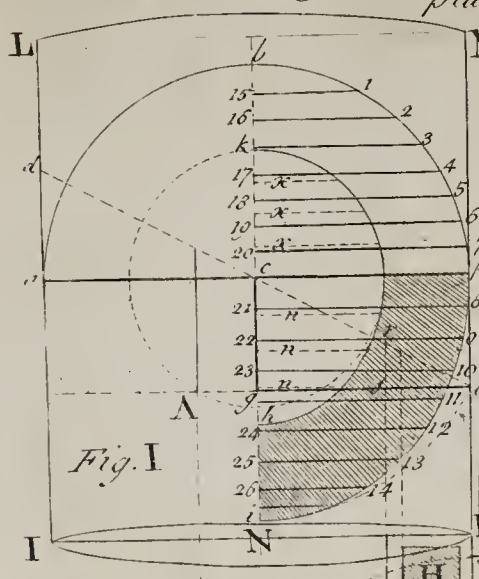

DM
b
d

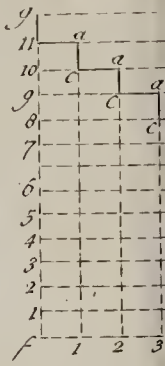

DL
e
d
f
c
g
b
h
a

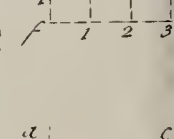

P


Q

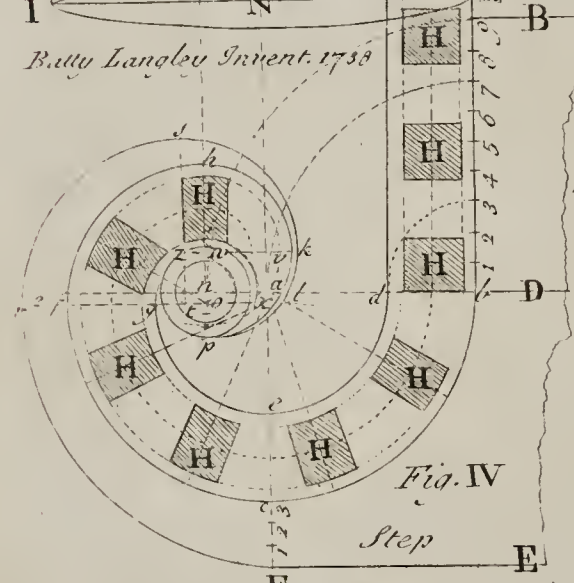
The Construction of Ramped & Twisted Rails Dem
plain Manner than has be

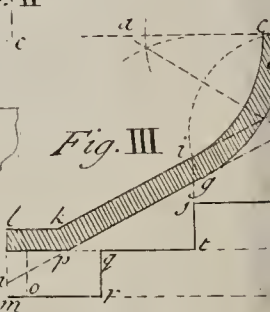


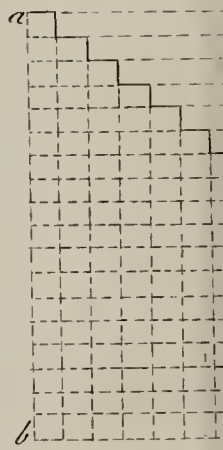


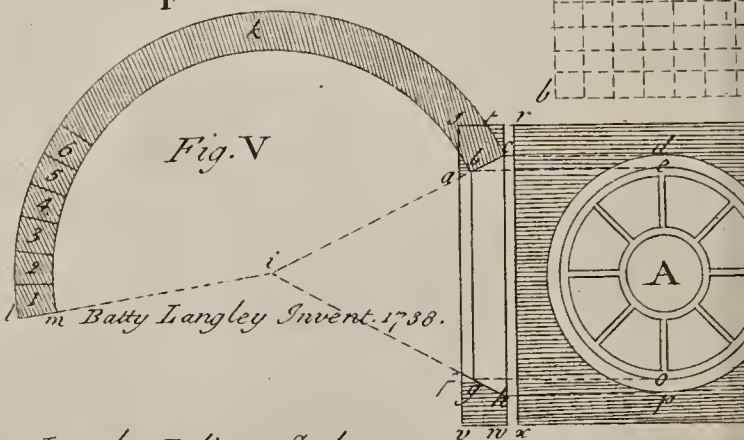


Batty Langley Invent. 1738





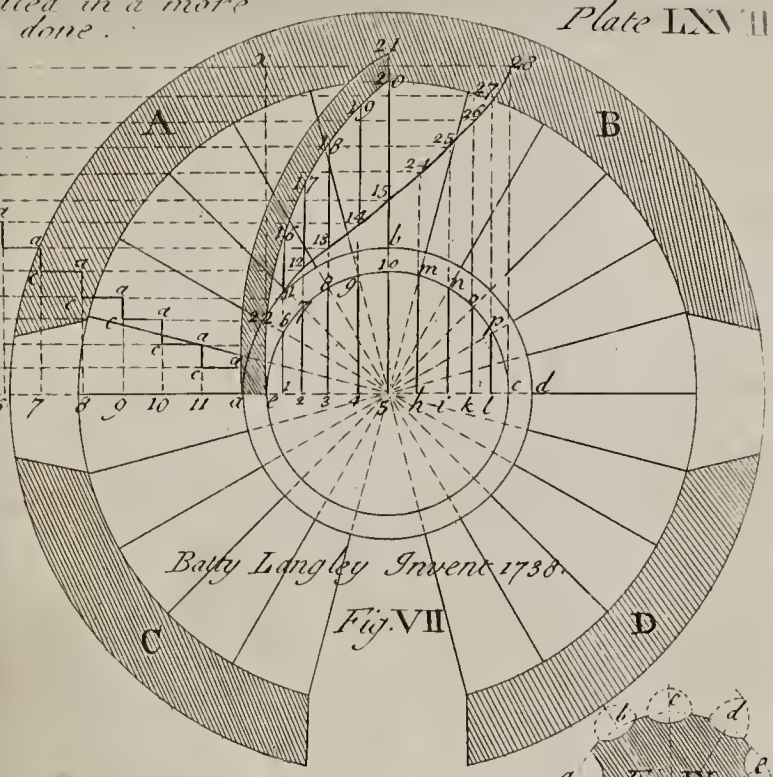




m Batty Langley Invent. 1738.

Batty Langley Delin & Sculp. 1738.

...lustrated in a more
...yet done.



Batty Langley Invent 1738.

Fig. VII

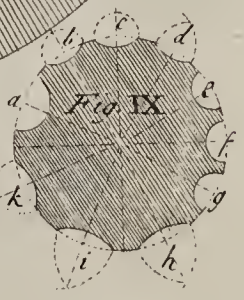
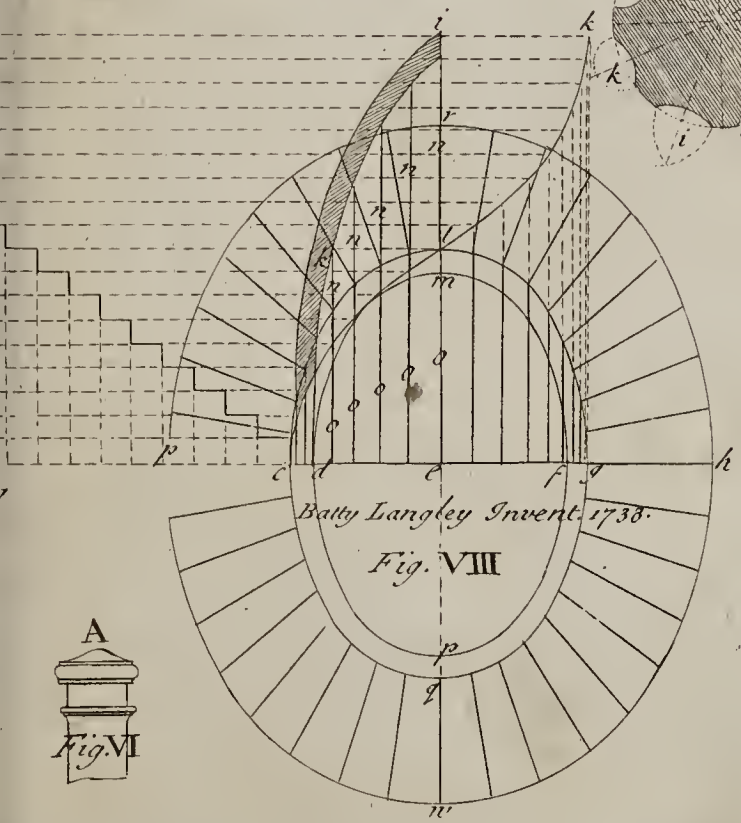


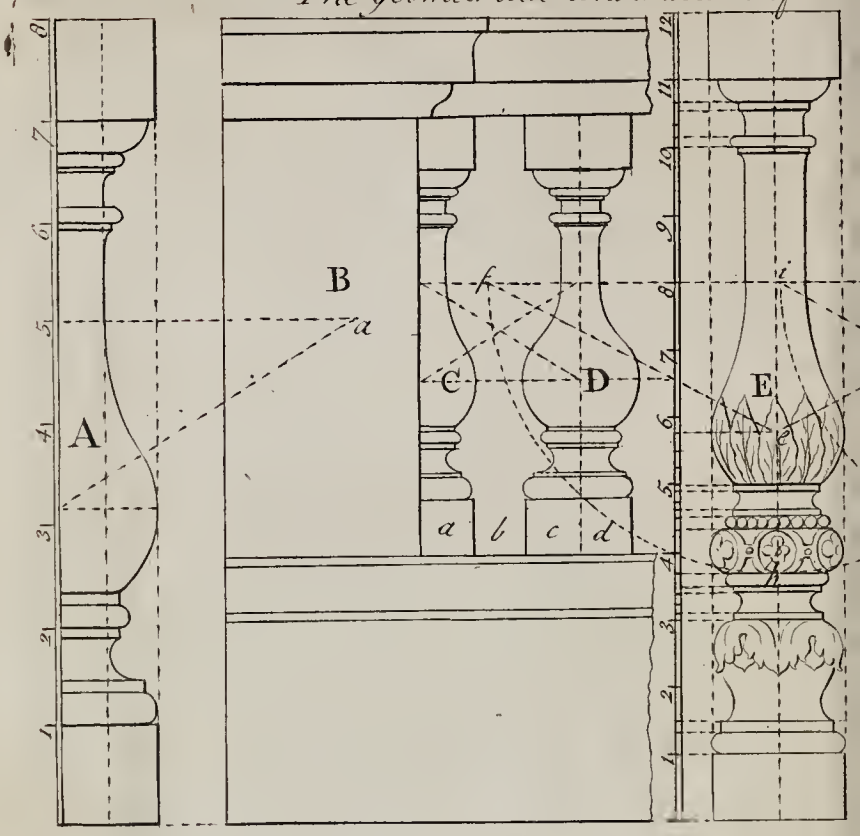
Fig. IX

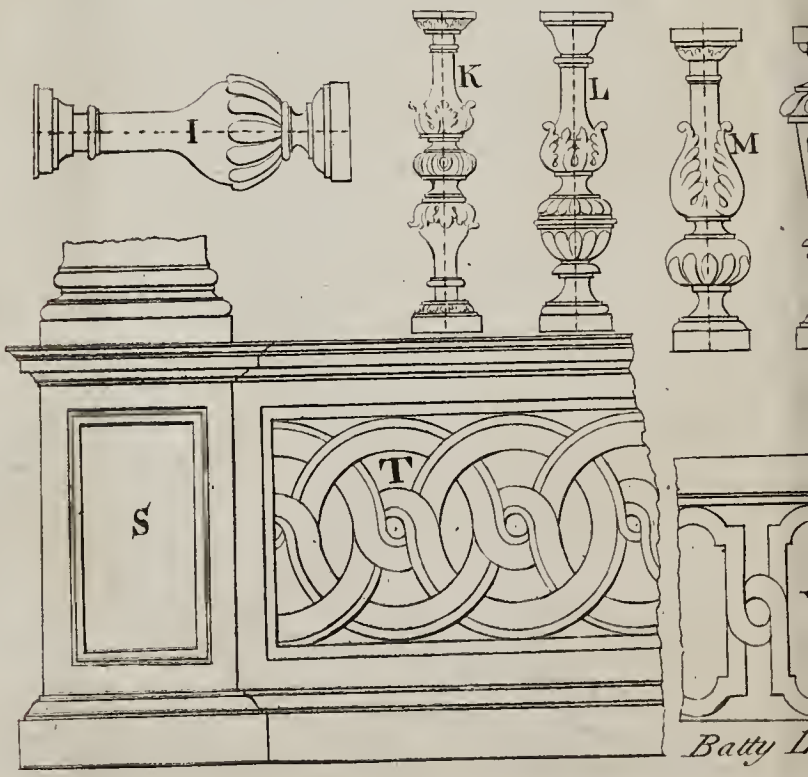


Batty Langley Invent 1738.

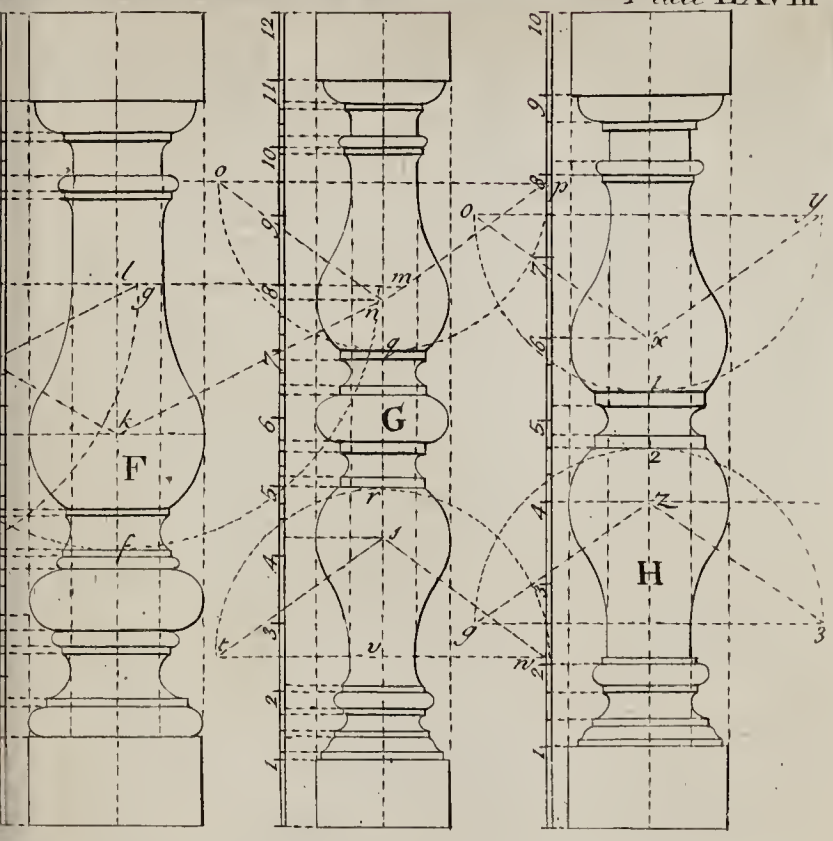
Fig. VIII

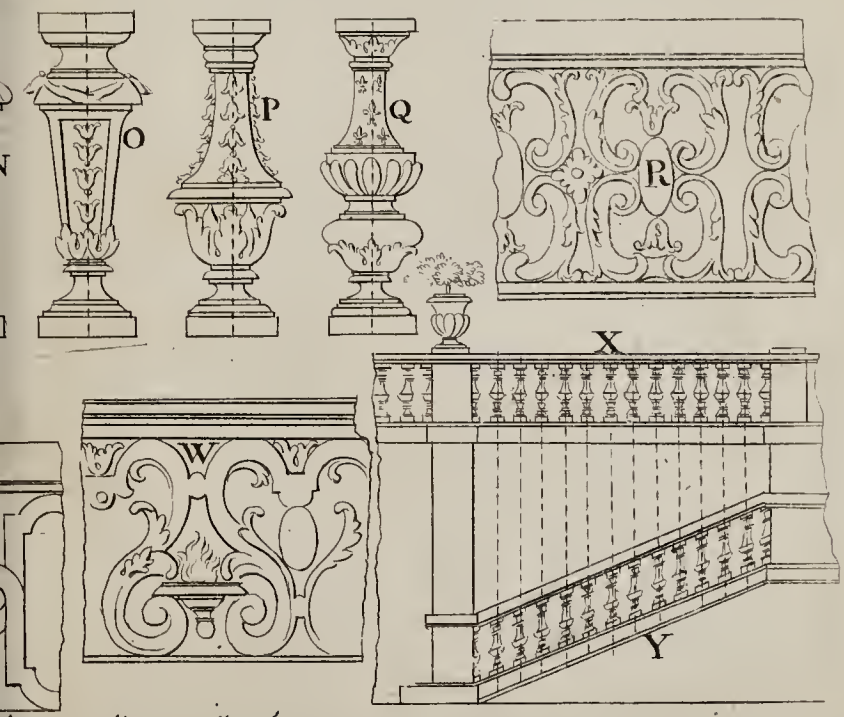
Fig. VI





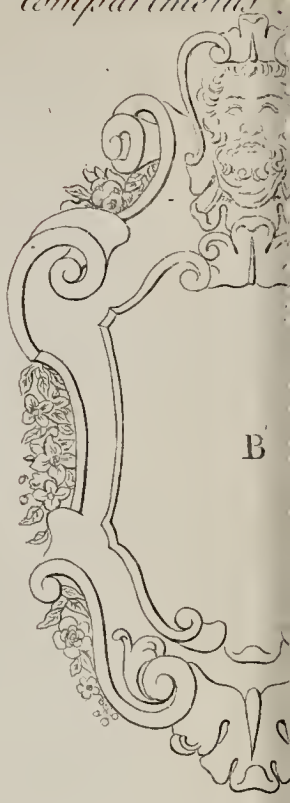
Batty L



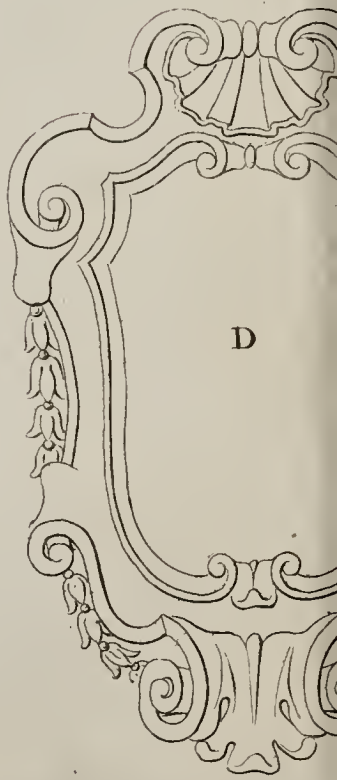


ley Delin. & Sculp. 1738.

A


B

C

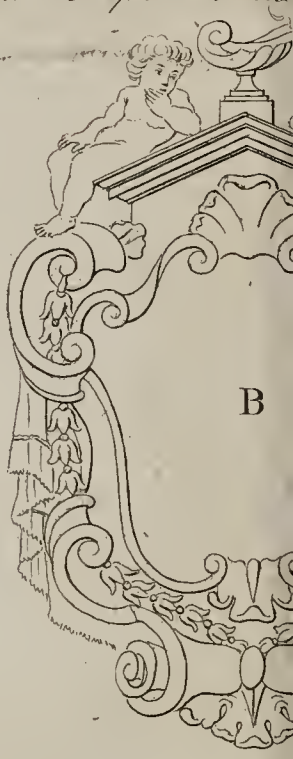

D

E

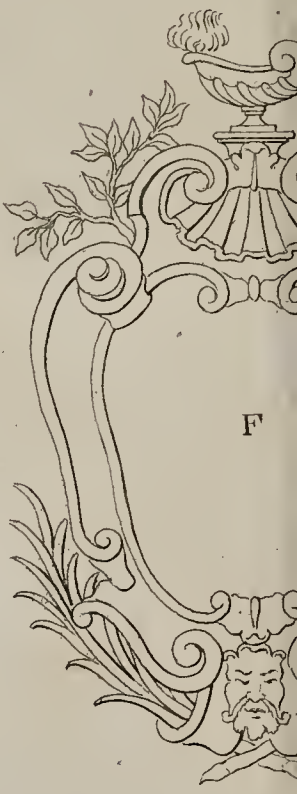
F

G

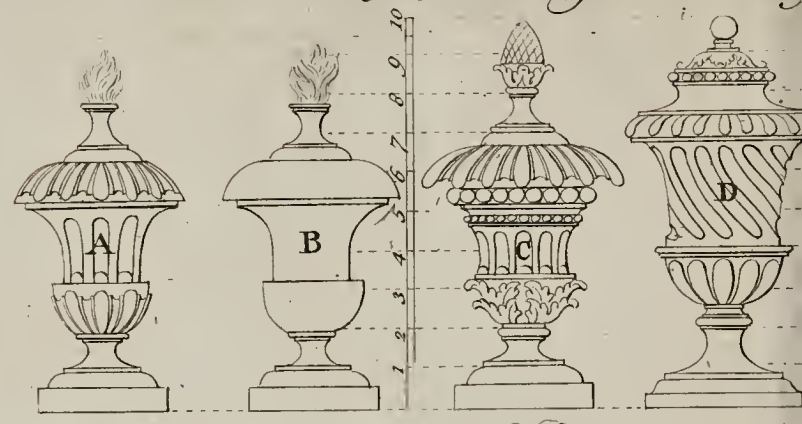
A

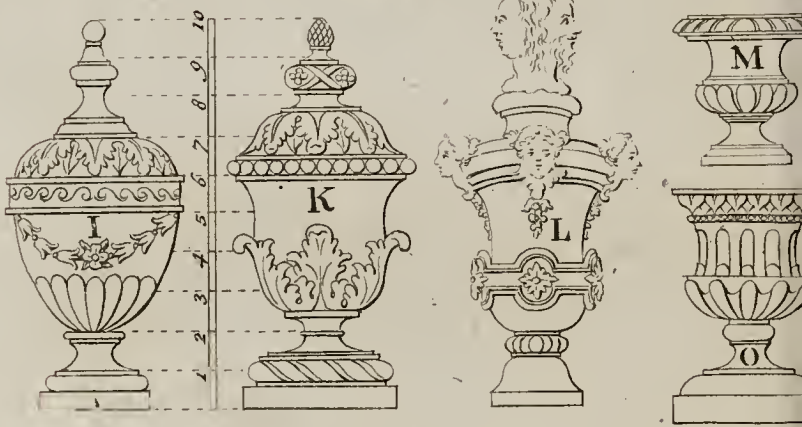

B

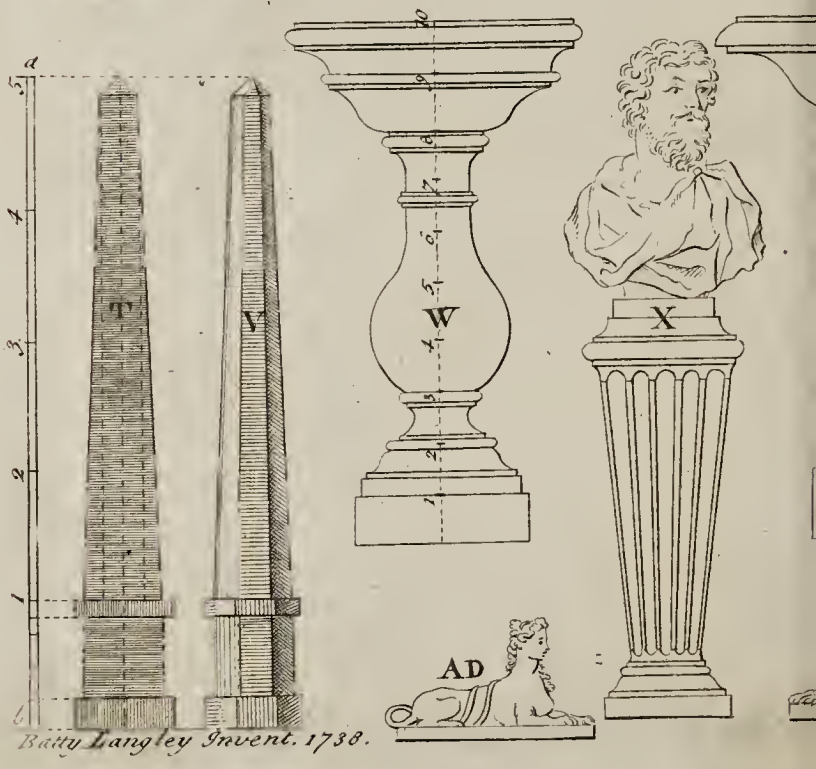
E


F

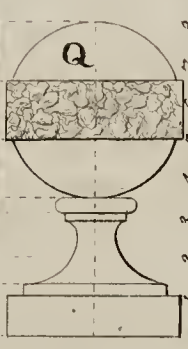
C
D
G

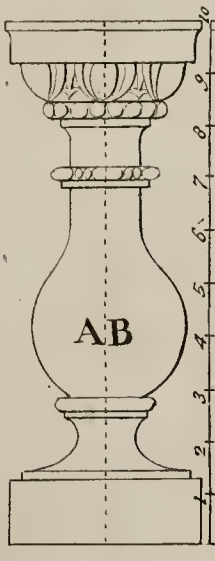


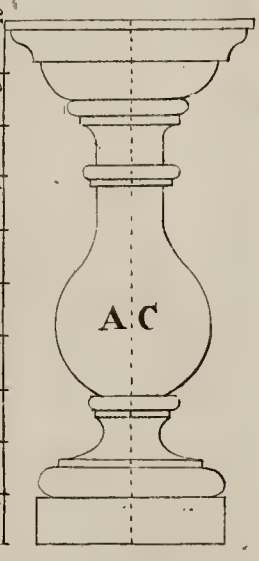




Batty Langley Invent. 1738.







Thos. Langley Delin. & Sculp.

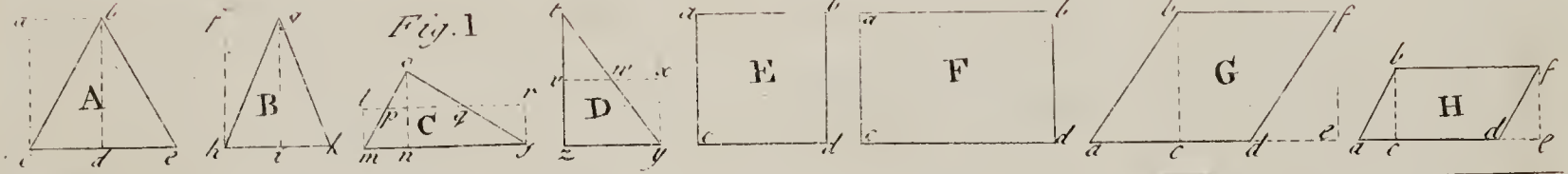
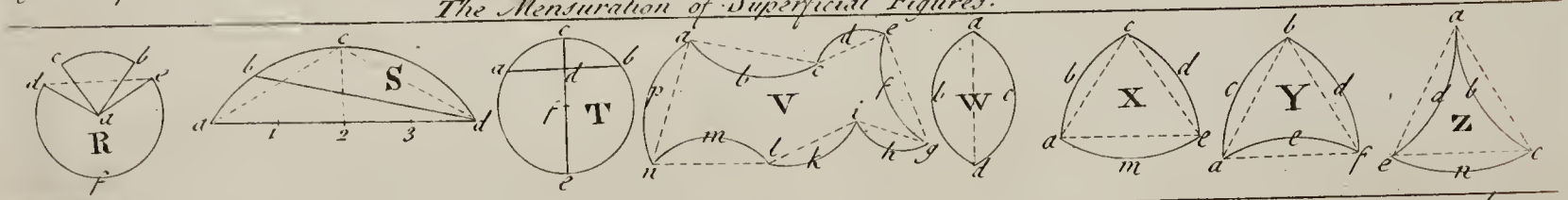


Fig. 1
A
B
C
D
E
F
G
H
I
K
L
M
N
O
P
Q


R
S
T
V
W
X
Y
Z

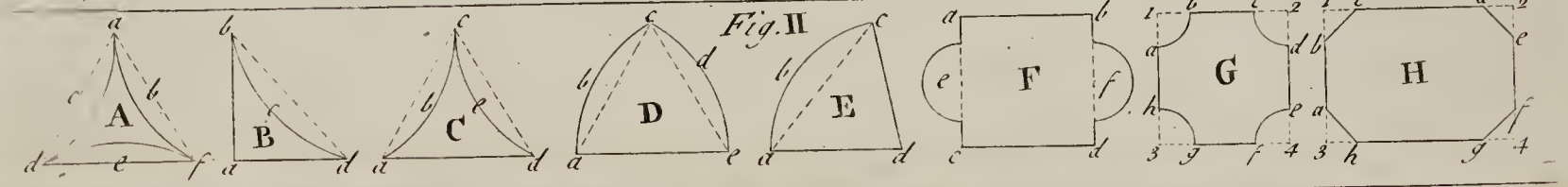


Fig. II
A
B
C
D
E
F
G
H

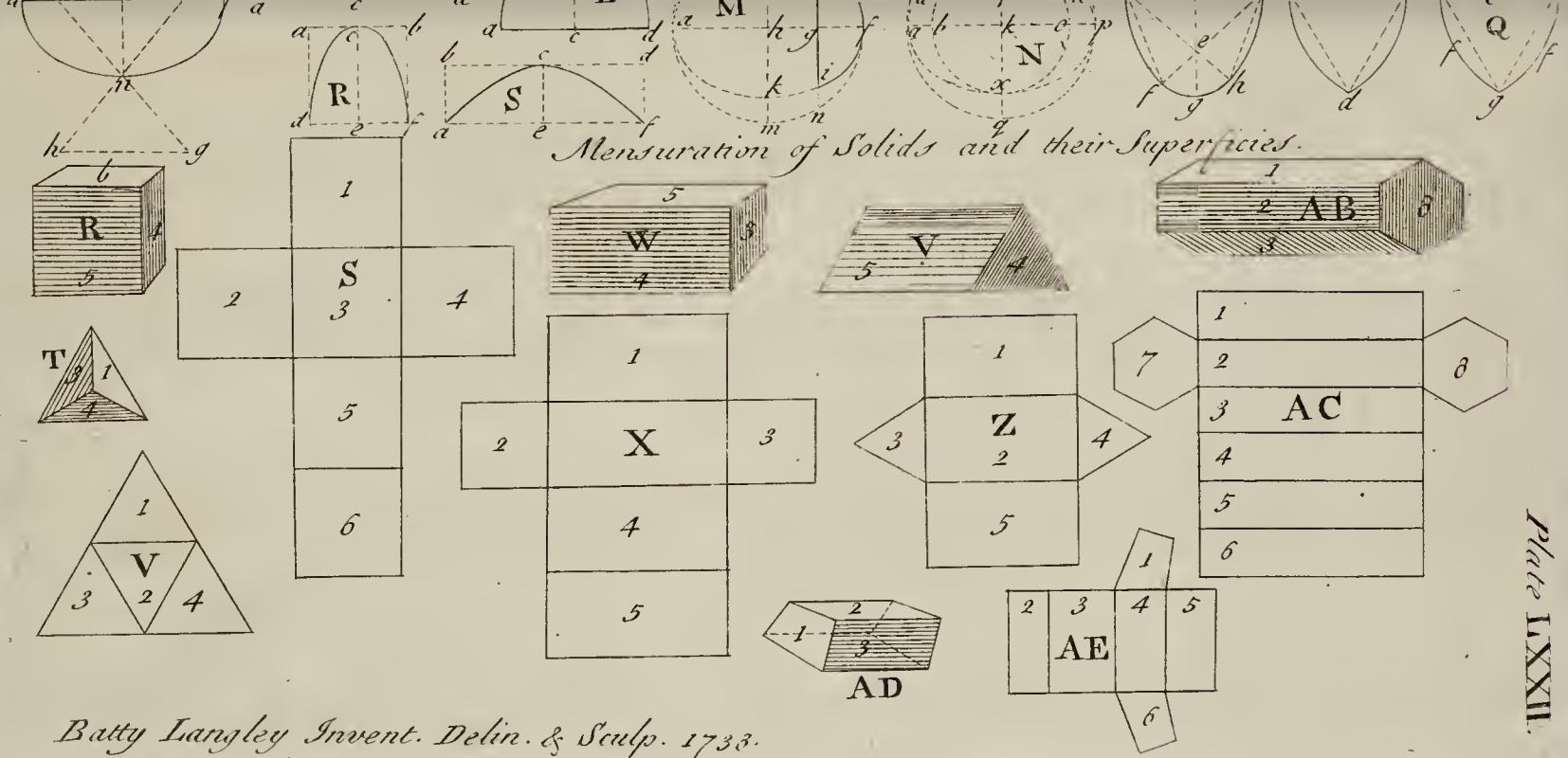
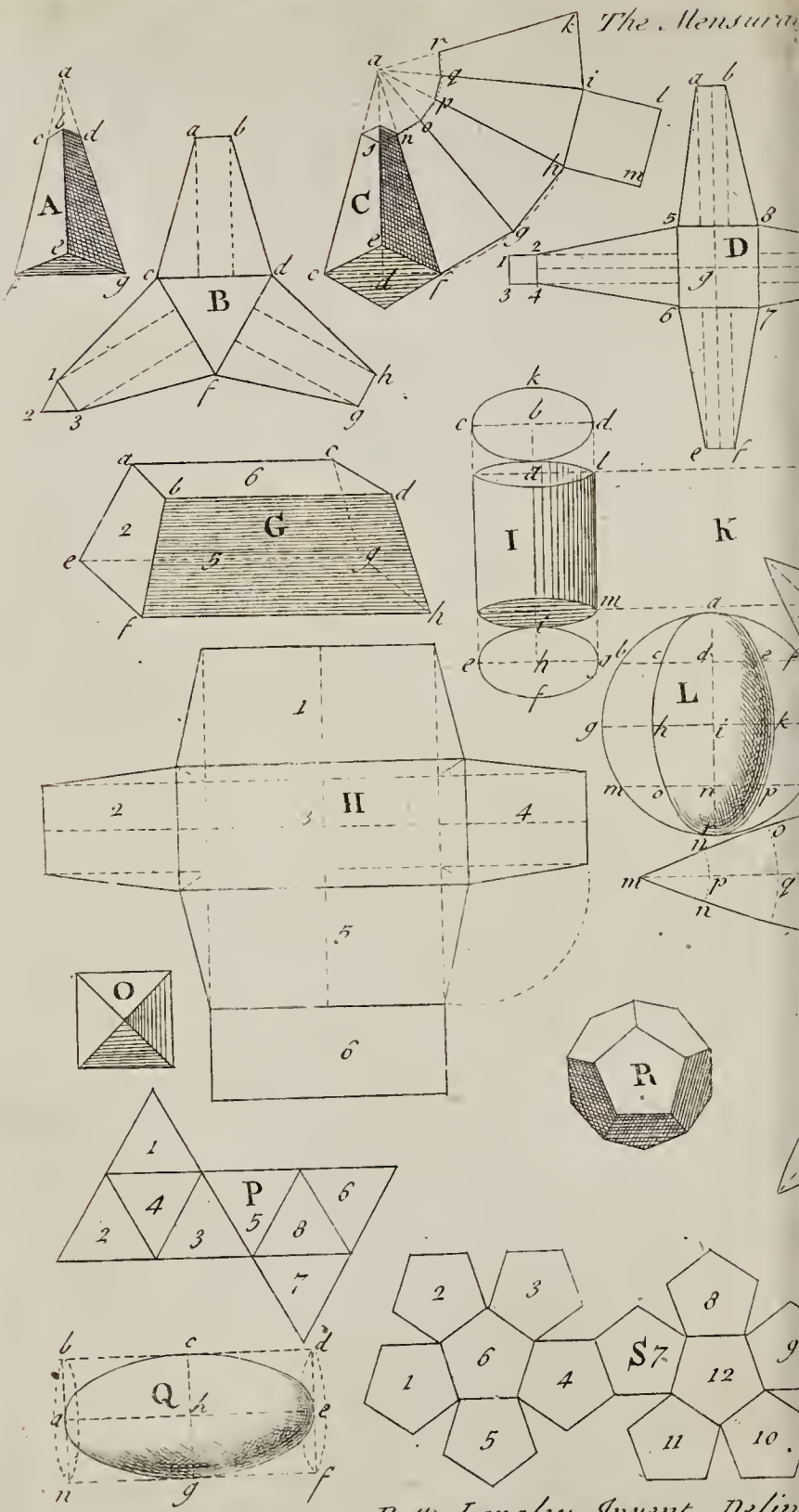
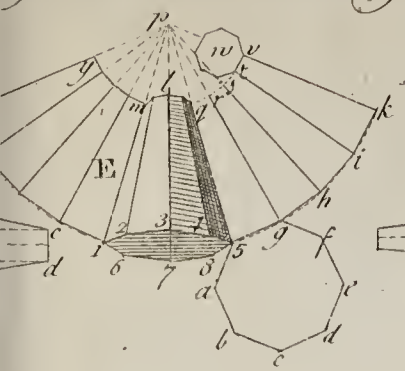
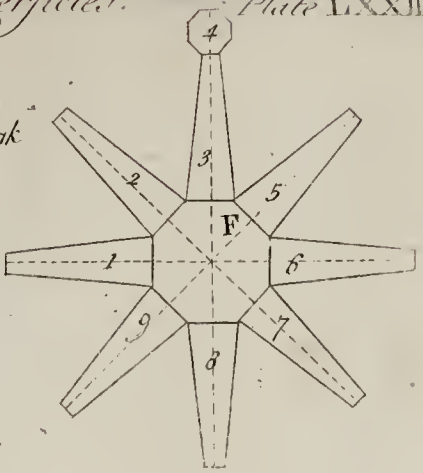

Mensuration of Solids and their Superficies.
R
S
T
V
W
X
Z
AB
AC
AD
AE
M
N
Q
Batty Langley Invent. Delin. & Sculp. 1733.

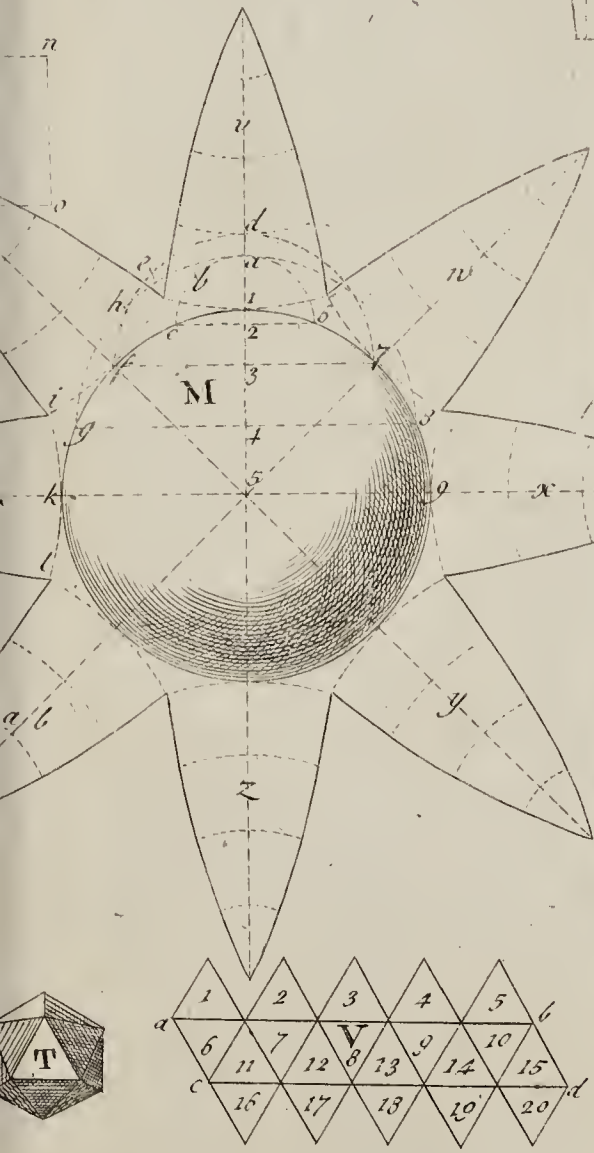
Plate LXXII.

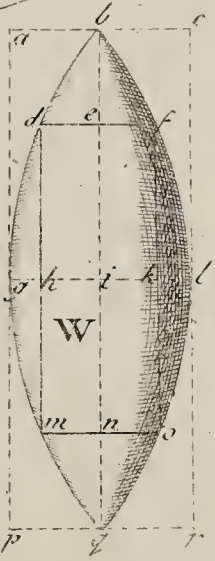


Battu Langley Invent. Delin

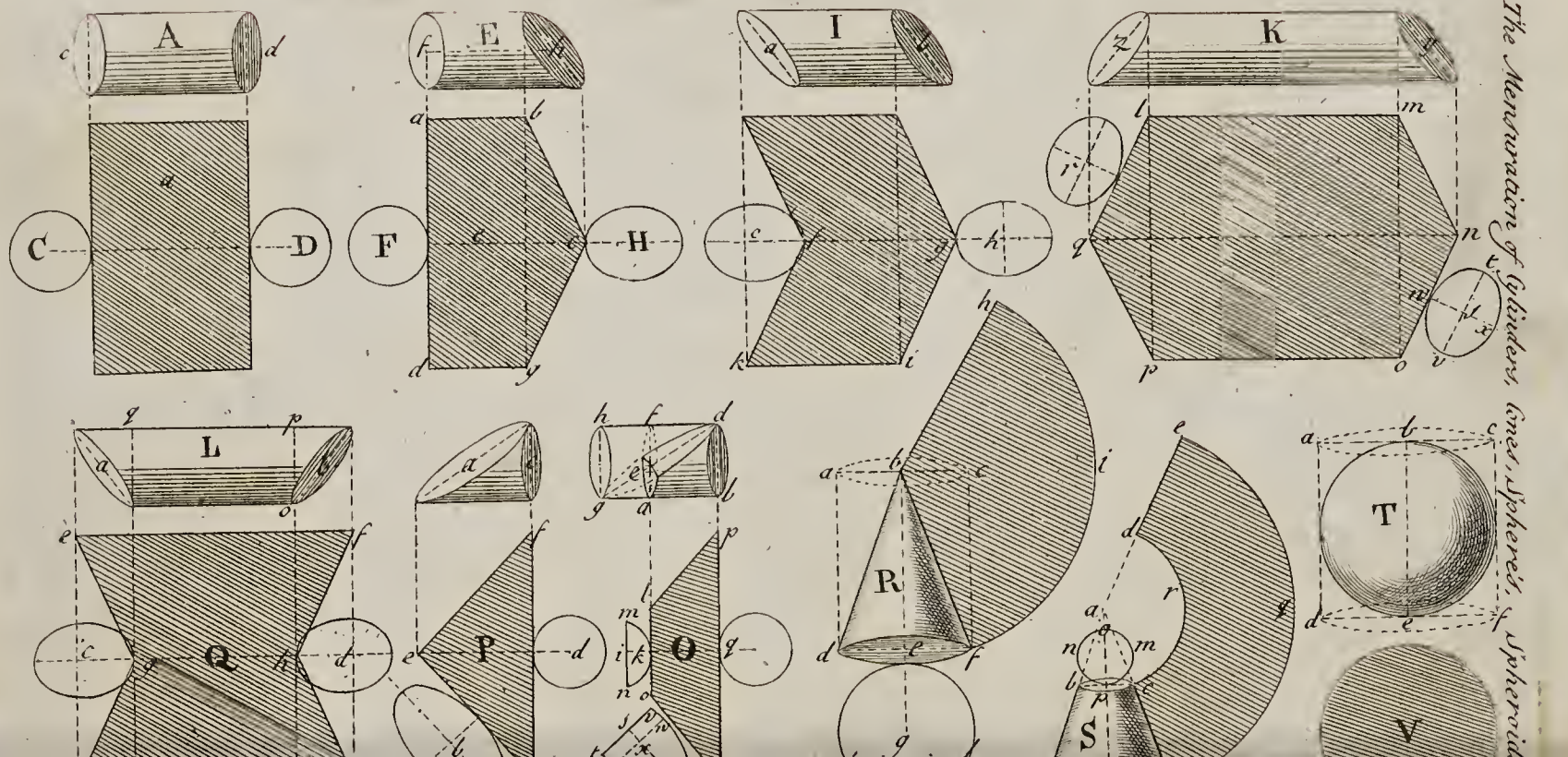


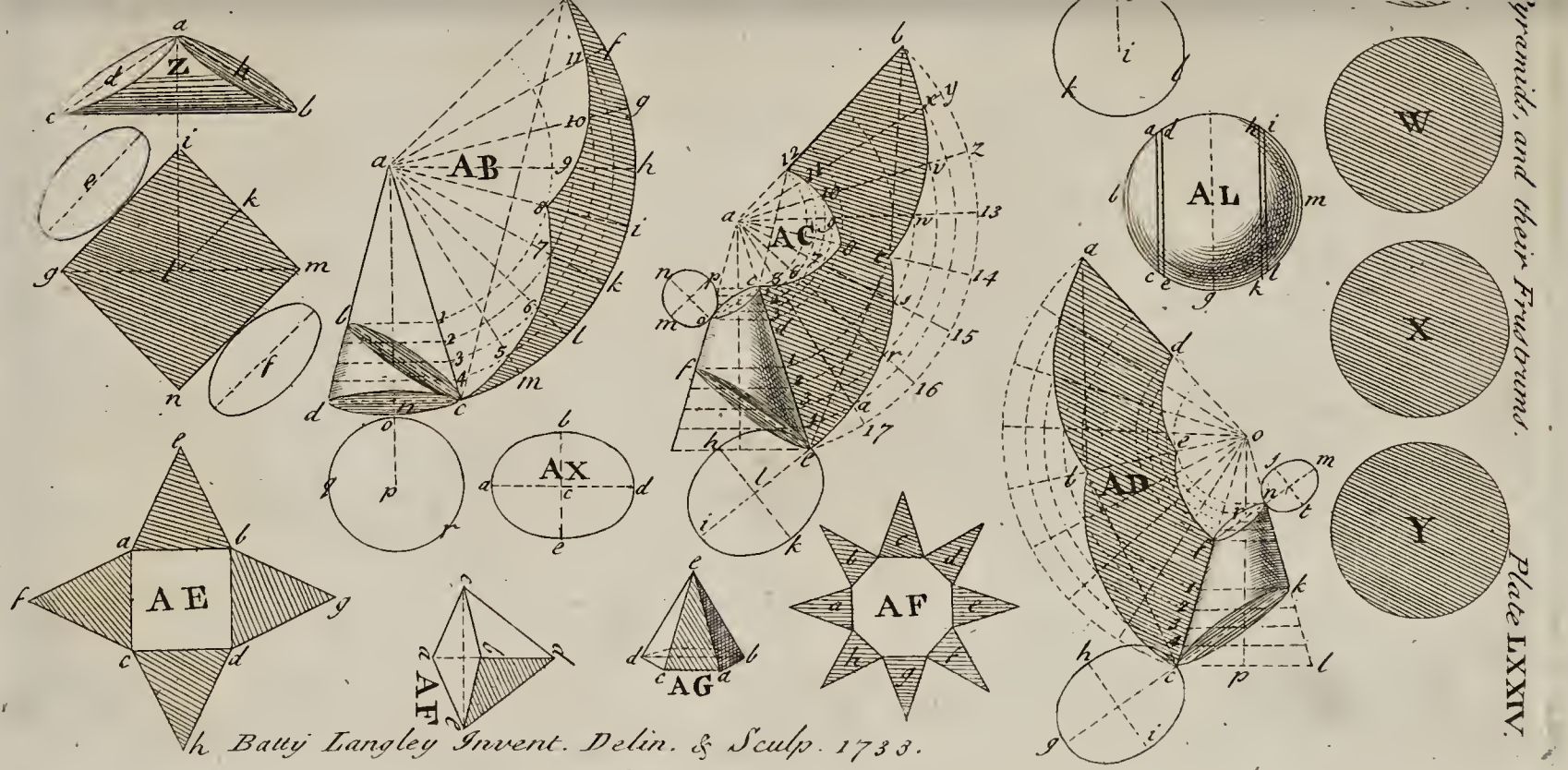






Sculp. 1738.


A
C
D
E
F
H
I
K
L
Q
P
O
R
S
T
V



Pyramids, and their Frustums.

Plate LXXIV.

h. Bally Langley Invent. Delin. & Sculp. 1733.

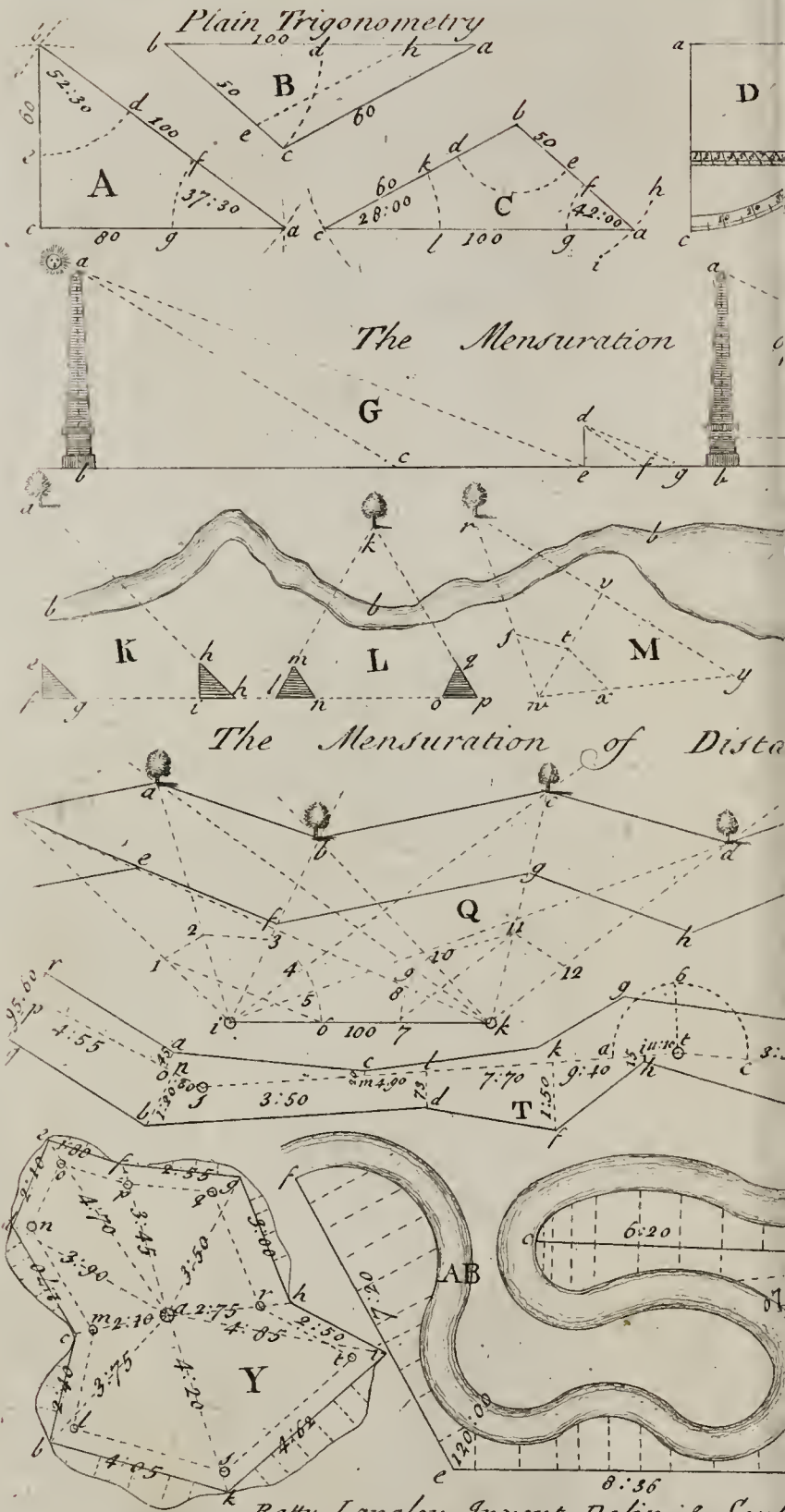

Plain Trigonometry
A
B
C
D
52:30
37:30
28:00
42:00
The Mensuration
G
K
L
M
The Mensuration of Dista
Q
T
Y
AB
Batty Langley Invent. Delin. & Sculp

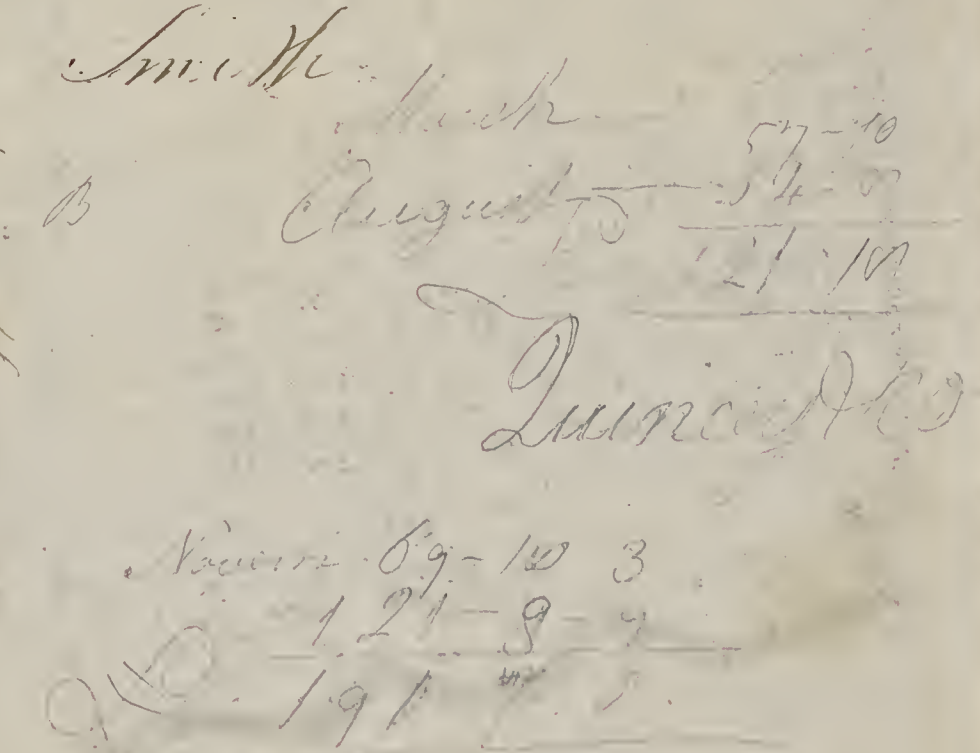
Plate LXXV.

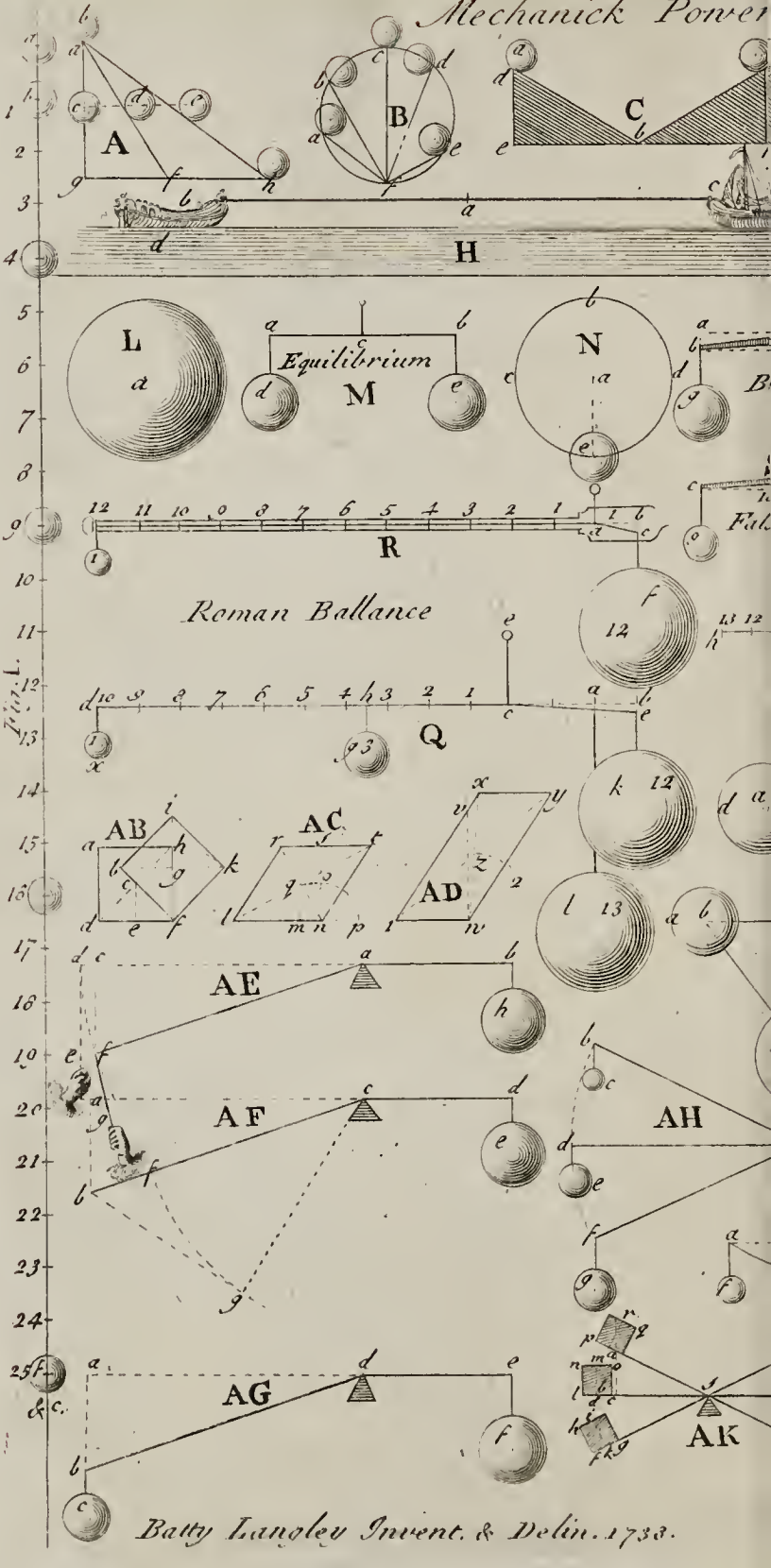
Francis Smith

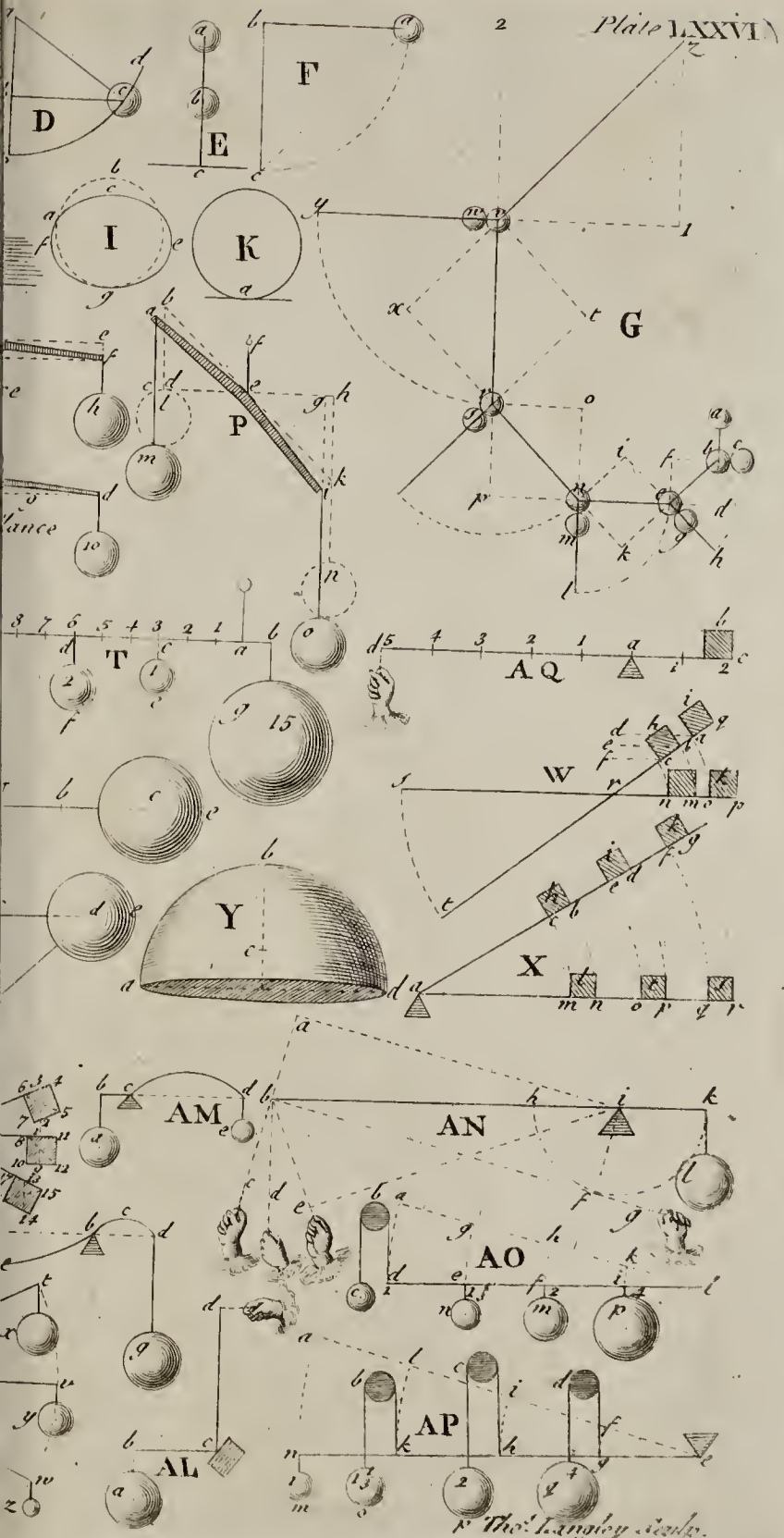
John Smith

Samuel Smith

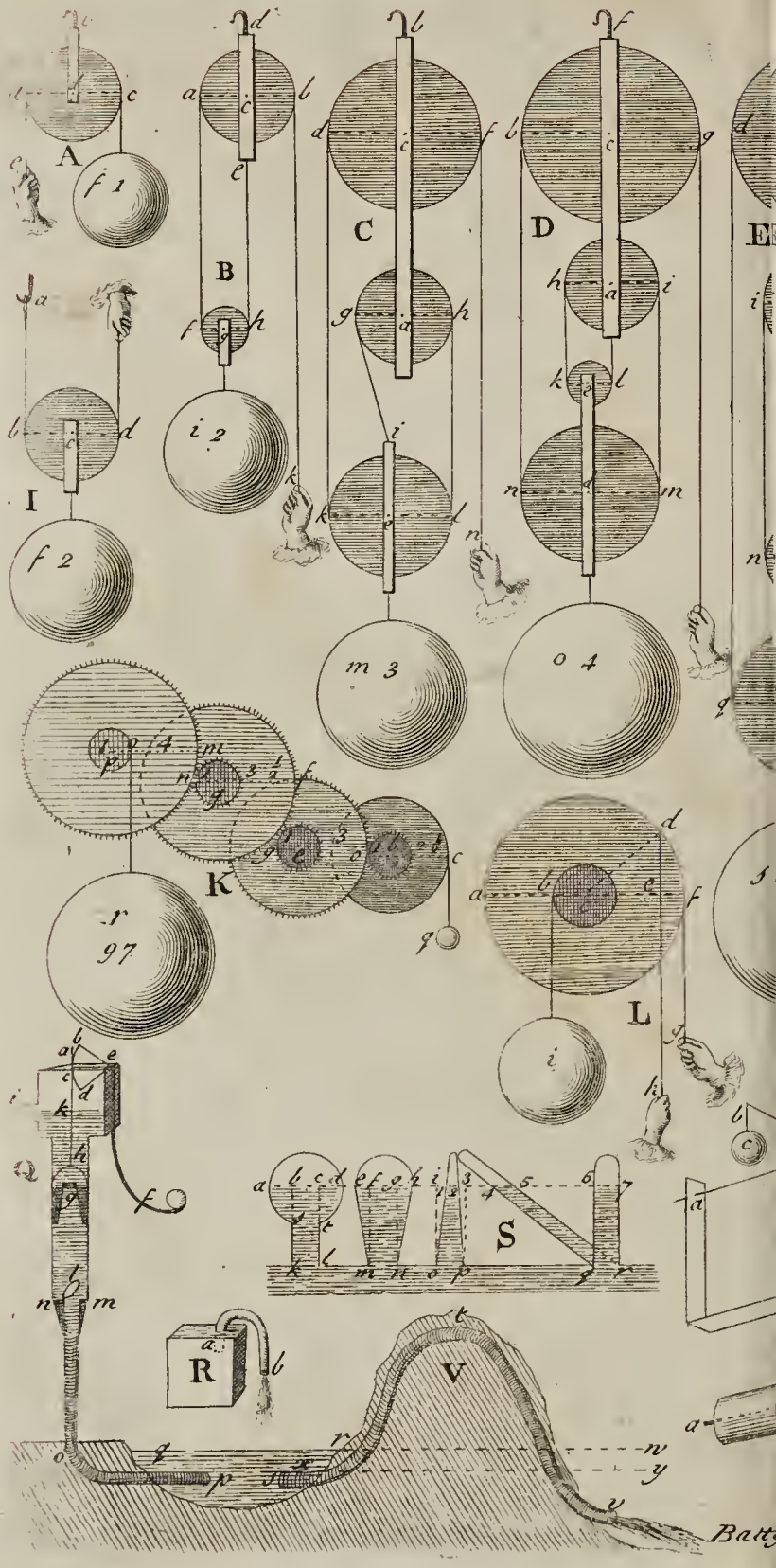
William Smith

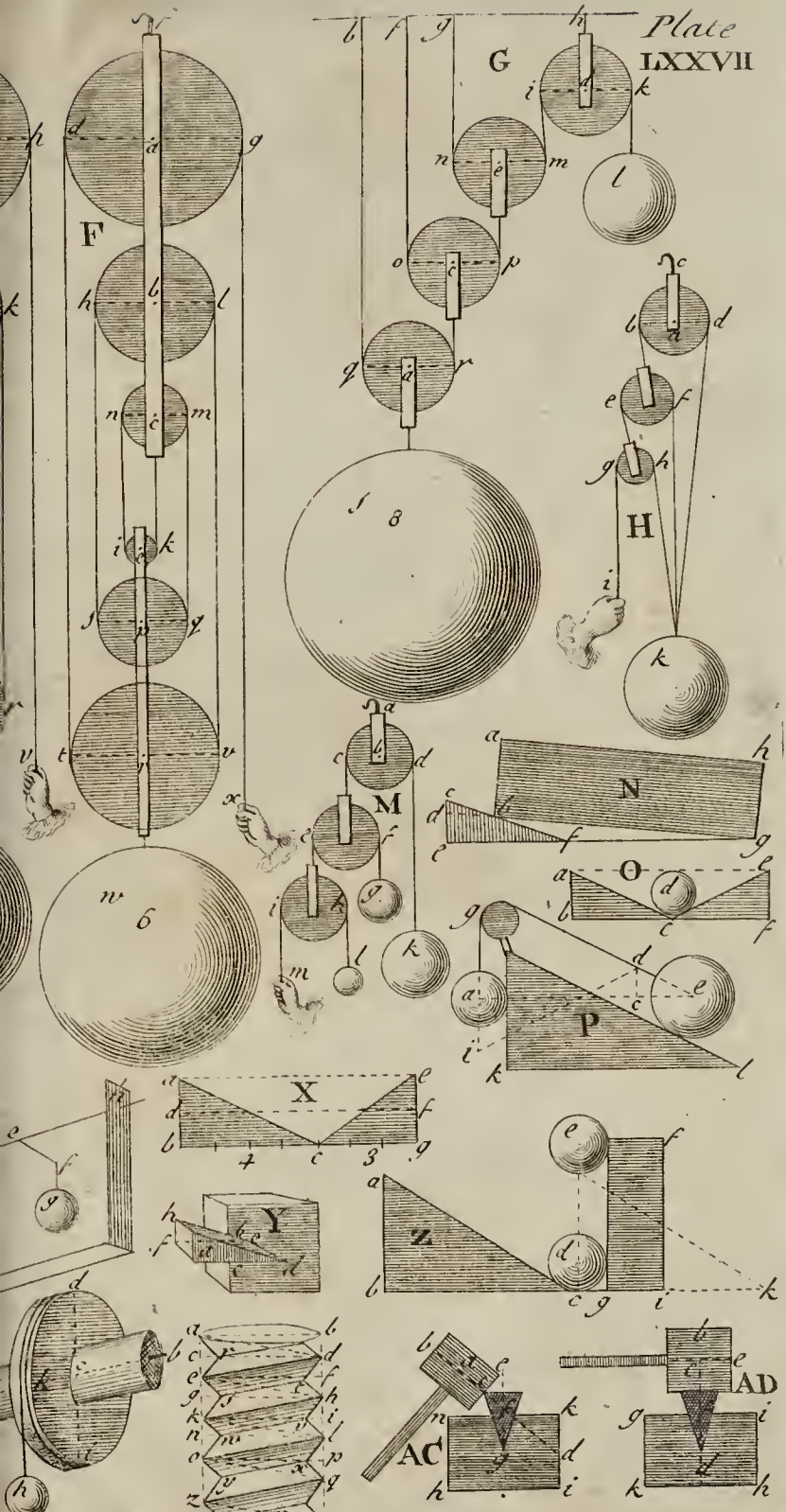



Mechanick Power
A
B
C
H
L
a
Equilibrium
M
N
R
Roman Ballance
Fig. I.
Q
AB
AC
AD
AE
AF
AG
AH
AK
Batty Langley Invent. & Delin. 1733.



P. Thos. Langley Sculp.


A
B
C
D
E
I
K
L
S
R
V
f 1
i 2
f 2
m 3
o 4
97
Batty



ley Invent 1738.

Tho.s Langley Sculp.

SPECIAL 89-B
144
V.2